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# Surface Mount Ferrite Products

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# Wire Wound Chip Inductors - LB Series

**Features:**
- Small size wound chip inductor with low DC resistance
- Dimension without directional influence on mountability and characteristics
- Excellent Q and SRF (LB H1608 Series)

**Applications:**
- Digital Still Cameras (DSC), Digital Video Cameras (DVC), PDA's and other portable digital equipment
- Portable telephones and wireless LAN (LB H1608 Series)

**Operating Temperature:**
- -25ºC to +105ºC (including self-generated heat)

## Part Numbering Table

**LB- 2012 - T 101 M K**

**Type**
LB- =Standard Type
LBC = High Current Type
LBR = Low Rdc Type
LBMF = Bottom Surface Electrode
(See Part Number Table)

**Case Size**
1608 (0603)
2012 (0805)
2016 (0806)
2518 (1007)
3218 (1207)

**Packaging Code**
T = Tape & Reel

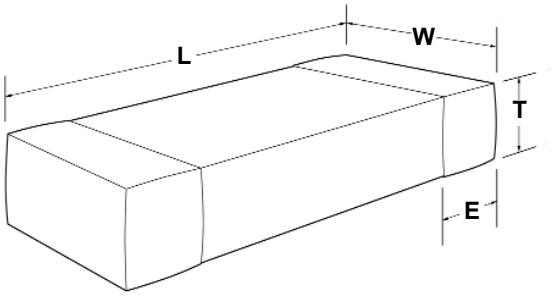
**KEMET Designator**

**Inductance Tolerance**
K = ±10%, M = ±20%

**Inductance**
**Examples:** 3N9 = 0.0039µH
10N = 0.01µH
R10 = 0.1µH
1R0 = 1.0µH
100 = 10µH
101 = 100µH

**(-) Required to complete Part Number**

## Dimension Table in millimeters (inches)




| Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|
| 1608 | 0603 | 1.6 ±0.1 (0.063 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.35 ±0.2 (0.014 ±0.008) |
| 2012 | 0805 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 2016 | 0806 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 2518 | 1007 | 2.5 ±0.2 (0.098 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 3218 | 1207 | 3.2 ±0.2 (0.128 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 1.8 ±0.2 (0.072 ±0.008) | 0.6 ±0.2 (0.024 ±0.008) |



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## 0603 Case Size Standard Type (LB 1608 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LB-1608-T4R7MK | 4.7 | ±20% | 45 | 0.55 | 70 | 7.96 | 4,000 |
| LB-1608-T8R2MK | 8.2 | ±20% | 32 | 0.70 | 50 | 2.52 | 4,000 |
| LB-1608-T100MK | 10 | ±20% | 32 | 0.70 | 50 | 2.52 | 4,000 |

## 0805 Case Size Standard Type (LB 2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LB-2012-T1R0MK | 1.0 | ±20% | 100 | 0.15 | 300 | 7.96 | 3,000 |
| LB-2012-T2R2MK | 2.2 | ±20% | 80 | 0.23 | 240 | 7.96 | 3,000 |
| LB-2012-T4R7MK | 4.7 | ±20% | 45 | 0.40 | 140 | 7.96 | 3,000 |
| LB-2012-T100MK | 10 | ±20% | 32 | 0.70 | 100 | 2.52 | 3,000 |
| LB-2012T100MRK* | 10 | ±20% | 32 | 0.50 | 100 | 2.52 | 3,000 |
| LB-2012-T220MK | 22 | ±20% | 15 | 1.70 | 75 | 2.52 | 3,000 |
| LB-2012-T470MK | 47 | ±20% | 11 | 3.70 | 50 | 2.52 | 3,000 |
| LB-2012-T101MK | 100 | ±20% | 8 | 7.00 | 30 | 0.796 | 3,000 |

* Low Rdc Type

## 0806 Case Size Standard Type (LB 2016 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LB-2016-T1R0MK | 1.0 | ±20% | 100 | 0.09 | 455 | 7.96 | 2,000 |
| LB-2016-T1R5MK | 1.5 | ±20% | 80 | 0.11 | 350 | 7.96 | 2,000 |
| LB-2016-T2R2MK | 2.2 | ±20% | 70 | 0.13 | 315 | 7.96 | 2,000 |
| LB-2016-T3R3MK | 3.3 | ±20% | 55 | 0.20 | 280 | 7.96 | 2,000 |
| LB-2016-T4R7MK | 4.7 | ±20% | 45 | 0.25 | 210 | 7.96 | 2,000 |
| LB-2016-T6R8MK | 6.8 | ±20% | 38 | 0.35 | 175 | 7.96 | 2,000 |
| LB-2016-T100MK | 10 | ±20% | 32 | 0.50 | 155 | 2.52 | 2,000 |
| LB-2016-T150MK | 15 | ±20% | 28 | 0.70 | 130 | 2.52 | 2,000 |
| LB-2016-T220MK | 22 | ±20% | 16 | 1.00 | 105 | 2.52 | 2,000 |
| LB-2016-T330MK | 33 | ±20% | 14 | 1.70 | 85 | 2.52 | 2,000 |
| LB-2016-T470MK | 47 | ±20% | 11 | 2.40 | 60 | 2.52 | 2,000 |
| LB-2016-T680MK | 68 | ±20% | 10 | 3.00 | 50 | 2.52 | 2,000 |
| LB-2016-T101MK | 100 | ±20% | 8 | 4.50 | 40 | 0.796 | 2,000 |

## 1007 Case Size Standard Type (LB 2518 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LB-2518-T1R0MK | 1.0 | ±20% | 100 | 0.06 | 500 | 7.96 | 2,000 |
| LB-2518-T1R5MK | 1.5 | ±20% | 80 | 0.07 | 400 | 7.96 | 2,000 |
| LB-2518-T2R2MK | 2.2 | ±20% | 68 | 0.09 | 340 | 7.96 | 2,000 |
| LB-2518-T3R3MK | 3.3 | ±20% | 54 | 0.11 | 270 | 7.96 | 2,000 |
| LB-2518-T4R7MK | 4.7 | ±20% | 46 | 0.13 | 240 | 7.96 | 2,000 |
| LB-2518-T6R8MK | 6.8 | ±20% | 38 | 0.15 | 195 | 7.96 | 2,000 |
| LB-2518-T100MK | 10 | ±20% | 30 | 0.25 | 165 | 2.52 | 2,000 |
| LB-2518-T150MK | 15 | ±20% | 23 | 0.32 | 145 | 2.52 | 2,000 |
| LB-2518-T220MK | 22 | ±20% | 19 | 0.50 | 115 | 2.52 | 2,000 |
| LB-2518-T330MK | 33 | ±20% | 15 | 0.70 | 95 | 2.52 | 2,000 |
| LB-2518-T470MK | 47 | ±20% | 12 | 0.95 | 85 | 2.52 | 2,000 |
| LB-2518-T680MK | 68 | ±20% | 9.5 | 1.50 | 70 | 2.52 | 2,000 |
| LB-2518-T101MK | 100 | ±20% | 9 | 2.10 | 55 | 0.796 | 2,000 |
| LB-2518-T151MK | 150 | ±20% | 7 | 3.20 | 45 | 0.796 | 2,000 |
| LB-2518-T221MK | 220 | ±20% | 5.5 | 4.50 | 35 | 0.796 | 2,000 |
| LB-2518-T331MK | 330 | ±20% | 4.5 | 7.00 | 30 | 0.796 | 2,000 |
| LB-2518-T471MK | 470 | ±20% | 3.5 | 10.00 | 25 | 0.796 | 2,000 |
| LB-2518-T681MK | 680 | ±20% | 3 | 17.00 | 20 | 0.796 | 2,000 |
| LB-2518-T102MK | 1000 | ±20% | 2.4 | 24.00 | 15 | 0.252 | 2,000 |

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## 1207 Case Size Standard Type (LB 3218 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LB-3218-T1R0MK | 1.0 | ±20% | 100 | 0.06 | 1075 | 7.96 | 2,000 |
| LB-3218-T1R5MK | 1.5 | ±20% | 80 | 0.07 | 860 | 7.96 | 2,000 |
| LB-3218-T2R2MK | 2.2 | ±20% | 68 | 0.09 | 775 | 7.96 | 2,000 |
| LB-3218-T3R3MK | 3.3 | ±20% | 54 | 0.11 | 560 | 7.96 | 2,000 |
| LB-3218-T4R7MK | 4.7 | ±20% | 41 | 0.13 | 550 | 7.96 | 2,000 |
| LB-3218-T6R8MK | 6.8 | ±20% | 40 | 0.17 | 380 | 7.96 | 2,000 |
| LB-3218-T100(_)K | 10 | K=10%, M=±20% | 30 | 0.25 | 340 | 2.52 | 2,000 |
| LB-3218-T150(_)K | 15 | K=10%, M=±20% | 25 | 0.32 | 300 | 2.52 | 2,000 |
| LB-3218-T220(_)K | 22 | K=10%, M=±20% | 19 | 0.49 | 255 | 2.52 | 2,000 |
| LB-3218-T330(_)K | 33 | K=10%, M=±20% | 15 | 0.75 | 215 | 2.52 | 2,000 |
| LB-3218-T470(_)K | 47 | K=10%, M=±20% | 12 | 0.92 | 205 | 2.52 | 2,000 |
| LB-3218-T680(_)K | 68 | K=10%, M=±20% | 11 | 1.49 | 145 | 2.52 | 2,000 |
| LB-3218-T101(_)K | 100 | K=10%, M=±20% | 8 | 2.40 | 140 | 0.796 | 2,000 |
| LB-3218-T151(_)K | 150 | K=10%, M=±20% | 7 | 3.20 | 105 | 0.796 | 2,000 |
| LB-3218-T221(_)K | 220 | K=10%, M=±20% | 5 | 5.40 | 80 | 0.796 | 2,000 |
| LB-3218-T331(_)K | 330 | K=10%, M=±20% | 4 | 7.00 | 65 | 0.796 | 2,000 |
| LB-3218-T471(_)K | 470 | K=10%, M=±20% | 3.5 | 14.00 | 54 | 0.796 | 2,000 |
| LB-3218-T681(_)K | 680 | K=10%, M=±20% | 3 | 17.00 | 45 | 0.796 | 2,000 |
| LB-3218-T102(_)K | 1000 | K=10%, M=±20% | 2.4 | 27.00 | 39 | 0.252 | 2,000 |

(_) - Insert Inductance Tolerance Code (K or M)

## 0603 Case Size Standard Type (LB MF 1608 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBMF1608T1R0MK | 1.0 | ±20% | 100 | 0.19 | 620 | 7.96 | 3,000 |
| LBMF1608T2R2MK | 2.2 | ±20% | 70 | 0.33 | 430 | 7.96 | 3,000 |
| LBMF1608T4R7MK | 4.7 | ±20% | 45 | 0.50 | 295 | 7.96 | 3,000 |
| LBMF1608T100(_)K | 10 | K=10%, M=±20% | 40 | 1.20 | 200 | 2.52 | 3,000 |
| LBMF1608T220(_)K | 22 | K=10%, M=±20% | 16 | 3.70 | 130 | 2.52 | 3,000 |
| LBMF1608T470(_)K | 47 | K=10%, M=±20% | 11 | 5.80 | 90 | 2.52 | 3,000 |

(_) - Insert Inductance Tolerance Code (K or M)

## 0805 Case Size High Current Type (LB C2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBC2012-T1R0MK | 1.0 | ±20% | 100 | 0.19 | 620 | 7.96 | 3,000 |
| LBC2012-T2R2MK | 2.2 | ±20% | 70 | 0.33 | 430 | 7.96 | 3,000 |
| LBC2012-T4R7MK | 4.7 | ±20% | 45 | 0.50 | 295 | 7.96 | 3,000 |
| LBC2012-T100MK | 10 | ±20% | 40 | 1.20 | 200 | 2.52 | 3,000 |
| LBC2012-T220MK | 22 | ±20% | 16 | 3.70 | 130 | 2.52 | 3,000 |
| LBC2012-T470MK | 47 | ±20% | 11 | 5.80 | 90 | 2.52 | 3,000 |

## 0806 Case Size High Current Type (LB C2016 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBC2016-T1R0MK | 1.0 | ±20% | 100 | 0.10 | 690 | 7.96 | 2,000 |
| LBC2016-T1R5MK | 1.5 | ±20% | 80 | 0.15 | 600 | 7.96 | 2,000 |
| LBC2016-T2R2MK | 2.2 | ±20% | 70 | 0.20 | 520 | 7.96 | 2,000 |
| LBC2016-T3R3MK | 3.3 | ±20% | 55 | 0.27 | 410 | 7.96 | 2,000 |
| LBC2016-T4R7MK | 4.7 | ±20% | 45 | 0.37 | 355 | 7.96 | 2,000 |
| LBC2016-T6R8MK | 6.8 | ±20% | 38 | 0.59 | 290 | 7.96 | 2,000 |
| LBC2016-T100MK | 10 | ±20% | 32 | 0.82 | 245 | 2.52 | 2,000 |
| LBC2016-T150MK | 15 | ±20% | 28 | 1.20 | 200 | 2.52 | 2,000 |
| LBC2016-T220MK | 22 | ±20% | 16 | 1.80 | 165 | 2.52 | 2,000 |
| LBC2016-T330MK | 33 | ±20% | 14 | 2.80 | 135 | 2.52 | 2,000 |
| LBC2016-T470MK | 47 | ±20% | 11 | 4.30 | 110 | 2.52 | 2,000 |
| LBC2016-T680MK | 68 | ±20% | 10 | 7.00 | 95 | 2.52 | 2,000 |
| LBC2016-T101MK | 100 | ±20% | 8 | 8.00 | 75 | 0.796 | 2,000 |


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## 1007 Case Size High Current Type (LB C2518 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBC2518-T1R0MK | 1.0 | ±20% | 100 | 0.08 | 775 | 7.96 | 2,000 |
| LBC2518-T1R5MK | 1.5 | ±20% | 80 | 0.11 | 660 | 7.96 | 2,000 |
| LBC2518-T2R2MK | 2.2 | ±20% | 68 | 0.13 | 600 | 7.96 | 2,000 |
| LBC2518-T3R3MK | 3.3 | ±20% | 54 | 0.16 | 500 | 7.96 | 2,000 |
| LBC2518-T4R7MK | 4.7 | ±20% | 41 | 0.20 | 430 | 7.96 | 2,000 |
| LBC2518-T6R8MK | 6.8 | ±20% | 38 | 0.30 | 360 | 7.96 | 2,000 |
| LBC2518-T100MK | 10 | ±20% | 30 | 0.36 | 300 | 2.52 | 2,000 |
| LBC2518-T150MK | 15 | ±20% | 23 | 0.65 | 250 | 2.52 | 2,000 |
| LBC2518-T220MK | 22 | ±20% | 19 | 0.77 | 210 | 2.52 | 2,000 |
| LBC2518-T330MK | 33 | ±20% | 15 | 1.50 | 170 | 2.52 | 2,000 |
| LBC2518-T470MK | 47 | ±20% | 12 | 1.90 | 150 | 2.52 | 2,000 |
| LBC2518-T680MK | 68 | ±20% | 9.5 | 2.80 | 120 | 2.52 | 2,000 |
| LBC2518-T101MK | 100 | ±20% | 9.0 | 3.70 | 100 | 0.796 | 2,000 |
| LBC25I8-T151MK | 150 | ±20% | 7.0 | 6.10 | 85 | 0.796 | 2,000 |
| LBC2518-T221MK | 220 | ±20% | 5.5 | 8.40 | 70 | 0.796 | 2,000 |
| LBC2518-T331MK | 330 | ±20% | 4.5 | 12.30 | 60 | 0.796 | 2,000 |
| LBC2518-T471MK | 470 | ±20% | 3.5 | 22.00 | 45 | 0.796 | 2,000 |
| LBC2518-T681MK | 680 | ±20% | 3.0 | 28.00 | 35 | 0.796 | 2,000 |

## 0805 Case Size Low RDC Type (LB R2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBR2012-T1R0MK | 1.0 | ±20% | 100 | 0.07 | 200 | 7.96 | 3,000 |
| LBR2012-T2R2MK | 2.2 | ±20% | 80 | 0.13 | 175 | 7.96 | 3,000 |
| LBR20I2-T4R7MK | 4.7 | ±20% | 45 | 0.24 | 150 | 7.96 | 3,000 |
| LBR2012-T100MK | 10 | ±20%. | 32 | 0.36 | 125 | 2.52 | 3,000 |
| LBR2012-T220MK | 22 | ±20% | 16 | 1.00 | 100 | 2.52 | 3,000 |
| LBR2012-T470MK | 47 | ±20% | I 1 | 1.70 | 75 | 2.52 | 3,000 |
| LBR2012-T101MK | 100 | ±20% | 8 | 4.00 | 50 | 0.796 | 3,000 |

## 1007 Case Size Low RDC Type (LB R2518 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| LBR2518-T1R0MK | 1.0 | ±20% | 100 | 0.045 | 400 | 7.96 | 2,000 |
| LBR25I8-T2R2MK | 2.2 | ±20% | 68 | 0.07 | 280 | 7.96 | 2,000 |
| LBR2518-T4R7MK | 4.7 | ±20% | 45 | 0.1 | 200 | 7.96 | 2,000 |
| LBR2518-T100MK | 10 | ±20% | 30 | 0.19 | 180 | 2.52 | 2,000 |
| LBR2518-T220MK | 22 | ±20% | 19 | 0.44 | 120 | 2.52 | 2,000 |
| LBR2518-T470MK | 47 | ±20% | 11 | 0.84 | 95 | 2.52 | 2,000 |
| LBR2518-T101MK | 100 | ±20% | 9 | 1.89 | 75 | 0.796 | 2,000 |

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# Wire Wound Chip Inductors - CB Series

**Features:**
- Small size wound chip inductor with high current
- Dimension without directional influence on mountability and characteristics

**Applications:**
- Digital Still Cameras (DSC), Digital Video Cameras (DVC), PDA's and other portable digital equipment
- For DC-DC converter circuit

**Operating Temperature:**
- -25ºC to +105ºC (including self-generated heat)

## Part Numbering Table

| CB- | 2016 | T | 100 | M | R | K |
|---|---|---|---|---|---|---|

**Type**
CB- = Standard Type
CBC = High Current Type
CBL = High Frequency Type
CBMF = Power, Bottom surface electrode
(See part number table)

**Case Size**
2012 (0805)
2016 (0806)
2518 (1007)
3225 (1210)

**Packaging Code**
T = Tape & Reel

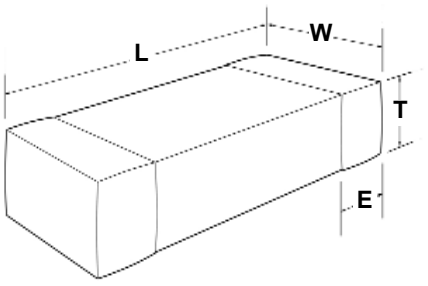
**Inductance**
**Examples:** 3N9 = 0.0039µH
10N = 0.01µH
R10 = 0.1µH
1R0 = 1.0µH
100 = 10µH
101 = 100µH

**Inductance Tolerance**
"-" = Standard, M = ±20%

**Special Code**
R = Low Rdc Type

**KEMET Designator**

## Dimension Table in millimeters (inches)




| Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|
| 1608 | 0603 | 1.6 ±0.2 (0.063 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.4 ±0.15 (0.015 ±0.006) |
| 2012 | 0805 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 2016 | 0806 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 2518 | 1007 | 2.5 ±0.2 (0.098 ±0.008) | 1.8 ±0.2 (0.071 ±0.008) | 1.8 ±0.2 (0.071 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 3225 | 1210 | 3.2 ±0.2 (0.126 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) | 0.6 ±0.3 (0.024 ±0.012) |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## 0805 Case Size Low RDC Type (CB 2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CB-2012T2R2MRK | 2.2 | ±20% | 80 | 0.23 | 410 | 770 | 7.96 | 3,000 |
| CB-2012T4R7MRK | 4.7 | ±20% | 45 | 0.40 | 300 | 580 | 7.96 | 3,000 |
| CB-2012T100MRK | 10 | ±20% | 32 | 0.50 | 200 | 520 | 2.52 | 3,000 |
| CB-2012T220MRK | 22 | ±20% | 16 | 1.70 | 135 | 280 | 2.52 | 3,000 |
| CB-2012T470MRK | 47 | ±20% | 11 | 3.70 | 90 | 190 | 2.52 | 3,000 |

## 0806 Case Size Low RDC Type (CB 2016 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CB-2016T2R2M-K | 2.2 | ±20% | 70 | 0.13 | 510 | 1000 | 7.96 | 2,000 |
| CB-2016T4R7M-K | 4.7 | ±20% | 45 | 0.25 | 340 | 740 | 7.96 | 2,000 |
| CB-2016T100M-K | 10 | ±20% | 32 | 0.50 | 250 | 520 | 2.52 | 2,000 |
| CB-2016T220M-K | 22 | ±20% | 16 | 1.00 | 165 | 370 | 2.52 | 2,000 |
| CB-2016T470M-K | 47 | ±20% | 11 | 2.40 | 110 | 240 | 2.52 | 2,000 |

## 1007 Case Size Low RDC Type (CB 2518 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CB-2518T2R2M-K | 2.2 | ±20% | 68 | 0.09 | 510 | 1300 | 7.96 | 2,000 |
| CB-2518T4R7M-K | 4.7 | ±20% | 46 | 0.13 | 340 | 1100 | 7.96 | 2,000 |
| CB-2518T100M-K | 10 | ±20% | 30 | 0.25 | 250 | 820 | 2.52 | 2,000 |
| CB-2518T220M-K | 22 | ±20% | 19 | 0.50 | 165 | 580 | 2.52 | 2,000 |
| CB-2518T470M-K | 47 | ±20% | 12 | 0.95 | 110 | 420 | 2.52 | 2,000 |

## 0805 Case Size High Current Type (CBC 2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBC2012T1R0M-K | 1.0 | ±20% | 100 | 0.19 | 700 | 840 | 7.96 | 3,000 |
| CBC2012T2R2M-K | 2.2 | ±20% | 70 | 0.33 | 530 | 640 | 7.96 | 3,000 |
| CBC2012T4R7M-K | 4.7 | ±20% | 45 | 0.50 | 360 | 520 | 7.96 | 3,000 |
| CBC2012T100M-K | 10 | ±20% | 40 | 1.20 | 240 | 340 | 2.52 | 3,000 |
| CBC2012T220M-K | 22 | ±20% | 16 | 3.70 | 170 | 190 | 2.52 | 3,000 |
| CBC2012T470M-K | 47 | ±20% | 11 | 5.80 | 120 | 150 | 2.52 | 3,000 |

## 0806 Case Size High Current Type (CBC 2016 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBC2016T1R0M-K | 1.0 | ±20% | 100 | 0.1 | 1100 | 1100 | 7.96 | 3,000 |
| CBC2016T1R5M-K | 1.5 | ±20% | 80 | 0.15 | 1000 | 1000 | 7.96 | 3,000 |
| CBC2016T2R2M-K | 2.2 | ±20% | 70 | 0.20 | 750 | 720 | 7.96 | 3,000 |
| CBC2016T3R3M-K | 3.3 | ±20% | 55 | 0.27 | 600 | 610 | 7.96 | 3,000 |
| CBC2016T4R7M-K | 4.7 | ±20% | 45 | 0.37 | 550 | 530 | 7.96 | 3,000 |
| CBC2016T6R8M-K | 6.8 | ±20% | 38 | 0.59 | 450 | 450 | 7.96 | 3,000 |
| CBC2016T100(_)-K | 10 | K=10%, M=20% | 32 | 0.82 | 380 | 350 | 2.52 | 3,000 |
| CBC2016T150(_)-K | 15 | K=10%, M=20% | 28 | 1.2 | 300 | 300 | 2.52 | 3,000 |
| CBC2016T220(_)-K | 22 | K=10%, M=20% | 16 | 1.8 | 250 | 240 | 2.52 | 3,000 |
| CBC2016T330(_)-K | 33 | K=10%, M=20% | 14 | 2.8 | 220 | 220 | 2.52 | 3,000 |
| CBC2016T470(_)-K | 47 | K=10%, M=20% | 11 | 4.3 | 150 | 150 | 2.52 | 3,000 |
| CBC2016T680(_)-K | 68 | K=10%, M=20% | 10 | 7 | 130 | 130 | 2.52 | 3,000 |
| CBC2016T101(_)-K | 100 | K=10%, M=20% | 8 | 8 | 110 | 110 | 0.796 | 3,000 |

(_) - Insert Inductance Tolerance Code (K or M)

*For rated current of ordinary small power choke coils, please refer to the rated current (1) in the above table.

*For current (2) is the current for instantaneous flow such as plunging current of DC/DC converter.

In case of usage in the circuit where large current may be semicontinuously applied over 5 minutes with auto recovery circuit, etc, please contact our sales section before practical application.

Rated current (1):Current value to guarantee -30% of nominal inductance

Rated current (2):Current value to guarantee component temperature within AT = 40°C with current flow. (It's not the current to guarantee the inductance value)

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## 1007 Case Size High Current Type (CBC 2518 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBC2518T1R0M-K | 1.0 | ±20% | 100 | 0.08 | 1000 | 1200 | 7.96 | 2,000 |
| CBC2518T2R2M-K | 2.2 | ±20% | 68 | 0.13 | 890 | 1100 | 7.96 | 2,000 |
| CBC2518T4R7M-K | 4.7 | ±20% | 41 | 0.20 | 680 | 920 | 7.96 | 2,000 |
| CBC2518T100M-K | 10 | ±20% | 30 | 0.36 | 480 | 680 | 2.52 | 2,000 |
| CBC2518T220M-K | 22 | ±20% | 19 | 0.77 | 320 | 460 | 2.52 | 2,000 |
| CBC2518T470M-K | 47 | ±20% | 12 | 1.90 | 240 | 290 | 2.52 | 2,000 |
| CBC2518T101M-K | 100 | ±20% | 9 | 3.7 | 160 | 170 | 0.796 | 2,000 |
| CBC2518T221M-K | 220 | ±20% | 5.5 | 8.4 | 115 | 110 | 0.796 | 2,000 |
| CBC2518T471M-K | 470 | ±20% | 3.5 | 22 | 80 | 70 | 0.796 | 2,000 |
| CBC2518T681M-K | 680 | ±20% | 3 | 28 | 65 | 60 | 0.796 | 2,000 |

## 1210 Case Size High Current Type (CBC 3225 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBC3225T1R0MRK | 1.0 | ±20% | 250 | 0.055 | 2000 | 1440 | 0.1 | 1,000 |
| CBC3225T1R5MRK | 1.5 | ±20% | 220 | 0.06 | 2000 | 1310 | 0.1 | 1,000 |
| CBC3225T2R2MRK | 2.2 | ±20% | 190 | 0.08 | 2000 | 1130 | 0.1 | 1,000 |
| CBC3225T3R3MRK | 3.3 | ±20% | 160 | 0.095 | 1800 | 1040 | 0.1 | 1,000 |
| CBC3225T4R7MRK | 4.7 | ±20% | 70 | 0.1 | 1250 | 1010 | 0.1 | 1,000 |
| CBC3225T6R8MRK | 6.8 | ±20% | 50 | 0.12 | 930 | 940 | 0.1 | 1,000 |
| CBC3225T100(_)RK | 10 | K=±10%, M=±20% | 23 | 0.133 | 900 | 900 | 0.1 | 1,000 |
| CBC3225T150(_)RK | 15 | K=±10%, M=±20% | 20 | 0.195 | 730 | 850 | 0.1 | 1,000 |
| CBC3225T220(_)RK | 22 | K=±10%, M=±20% | 17 | 0.27 | 620 | 780 | 0.1 | 1,000 |
| CBC3225T330(_)RK | 33 | K=±10%, M=±20% | 13 | 0.41 | 500 | 570 | 0.1 | 1,000 |
| CBC3225T470(_)RK | 47 | K=±10%, M=±20% | 10 | 0.67 | 390 | 480 | 0.1 | 1,000 |
| CBC3225T680(_)RK | 68 | K=±10%, M=±20% | 8 | 1 | 320 | 410 | 0.1 | 1,000 |
| CBC3225T101(_)RK | 100 | K=±10%, M=±20% | 6 | 1.4 | 270 | 340 | 0.1 | 1,000 |

(_) - Insert Inductance Tolerance Code (K or M)

## 0805 Case Size Low Profile Type (CBL 2012 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBL2012T4R7M-K | 4.7 | ±20% | 45 | 0.66 | 275 | 490 | 0.10 | 4,000 |
| CBL2012T100M-K | 10 | ±20% | 32 | 1.00 | 205 | 370 | 0.10 | 4,000 |
| CBL2012T470M-K | 47 | ±20% | 11 | 4.20 | 100 | 140 | 0.10 | 4,000 |

## 0603 Case Size Power, Bottom Surface Electrode Type (CBMF 1608 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Self Resonant Frequency (MHz) | DC Resistance (Ω) (±30%) | Maximum Rated Current (mA) | | Measuring Frequency (MHz) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | | |
| CBMF1608T1R0MK | 1.0 | ±20% | 100 | 0.09 | 290 | 770 | 7.96 | 2,000 |
| CBMF1608T2R2MK | 2.2 | ±20% | 80 | 0.17 | 190 | 560 | 7.96 | 2,000 |
| CBMF1608T4R7MK | 4.7 | ±20% | 45 | 0.24 | 145 | 470 | 7.96 | 2,000 |
| CBMF1608T100(_)K | 10.0 | K = 10%, M = 20% | 32 | 0.36 | 115 | 380 | 2.52 | 2,000 |
| CBMF1608T220(_)K | 22 | K = 10%, M = 20% | 16 | 1.00 | 70 | 230 | 2.52 | 2,000 |
| CBMF1608T470(_)K | 47 | K = 10%, M = 20% | 11 | 2.5 | 50 | 140 | 2.52 | 2,000 |

(_) - Insert Inductance Tolerance Code (K or M)

*For rated current of ordinary small power choke coils, please refer to the rated current (1) in the above table.

*For current (2) is the current for instantaneous flow such as plunging current of DC/DC converter.

In case of usage in the circuit where large current may be semicontinuously applied over 5 minutes with auto recovery circuit, etc, please contact our sales section before practical application.
Rated current (1):Current value to guarantee -30% of nominal inductance (at 20ºC)
Rated current (2):Current value to guarantee component temperature within AT = 40°C with current flow. (It's not the current to guarantee the inductance value)


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# Multilayer Chip Inductors for High Frequency - HK Series

**Features:**
- Multilayer inductor made of advanced ceramics with low resistivity silver used as internal conductors, provides excellent Q and SRF characteristics
- Multilayer block structure ensures outstanding reliability, high productivity and excellent product quality

**Applications:**
- Designd to address surface mount inductor needs for applications above 100MHz
- Mobile phones and pagers
- High frequency circuits
- EMI counter measures in high frequency circuits

**Operating Temperature:**
- 0603: -55ºC to +125ºC
- 1005: -55ºC to +125ºC*
  -55ºC to +85ºC*
- 1608: -40ºC to +85ºC
- 2125: -40ºC to +85ºC

* Depends on rated current.

## Part Numbering Table

**HK- 1005 - 10N J T K**

**Type**
HK- = High Frequency
HKQ = High Frequency with High Q

**Case Size**
0603 (0201)
1005 (0402)
1608 (0603)
2125 (0805)

**Inductance**
**Examples:**
3N9 = 3.9nH
10N = 10.0nH
R10 = 100nH
R12 = 120nH

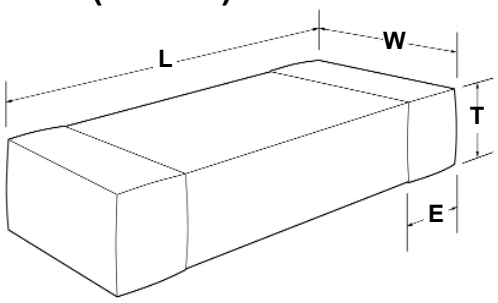
**(-) Required to complete Part Number**

**Inductance Tolerance**
C = ±0.2nH
H = ±3%
J = ±5%
S = ±0.3nH

**Packaging Code**
T = Tape & Reel

**KEMET Designator**

## Dimension Table in millimeters (inches)




| Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|
| 0603 | 0201 | 0.6 ±0.03 (0.024 ±0.001) | 0.3 ±0.03 (0.012 ±0.001) | 0.3 ±0.03 (0.012 ±0.001) | 0.15 ±0.05 (0.006 ±0.002) |
| 1005 | 0402 | 1.0 ±0.05 (0.039 ±0.002) | 0.5 ±0.05 (0.02 ±0.002) | 0.5 ±0.05 (0.02 ±0.002) | 0.25 ±0.10 (0.01 ±0.004) |
| 1608 | 0603 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 2125 | 0805 | 2.0 +0.3/-0.1 (0.079 +0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2<br>1.0 +0.2/-0.3<br>(0.033 ±0.008)<br>(0.039 +0.008/-0.012) | 0.5 ±0.3 (0.020 ±0.012) |

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## 0201 Case Size Multilayer Chip Inductors for High Frequency (HK 0603 Series)

| Ordering code | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q Frequency (MHz) | | | | | Self-resonant Frequency (MHz) | | DC Resistance (Ω) | | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 100 | 300 | 500 | 800 | 1000 | min. | typ. | max. | typ. | | | |
| HK-0603-IN0STK | 1.0 | ±0.3nH | 4 | 100 | 6 | 12 | 17 | 22 | 27 | 10000 | >13000 | 0.14 | 0.088 | 250 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-1N2STK | 1.2 | ±0.3nH | 4 | 100 | 6 | 12 | 16 | 21 | 25 | 10000 | >13000 | 0.14 | 0.089 | 250 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-1N5STK | 1.5 | ±0.3nH | 4 | 100 | 6 | 12 | 15 | 20 | 23 | 10000 | >13000 | 0.18 | 0.11 | 230 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-1N8STK | 1.8 | ±0.3nH | 4 | 100 | 6 | 12 | 15 | 20 | 23 | 10000 | >13000 | 0.19 | 0.12 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-2N2STK | 2.2 | ±0.3nH | 4 | 100 | 6 | 12 | 15 | 20 | 22 | 8800 | 12500 | 0.22 | 0.14 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-2N7STK | 2.7 | ±0.3nH | 5 | 100 | 7 | 12 | 15 | 20 | 22 | 7700 | 11000 | 0.25 | 0.16 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-3N3STK | 3.3 | ±0.3nH | 5 | 100 | 7 | 12 | 15 | 20 | 22 | 6700 | 9600 | 0.30 | 0.19 | 180 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-3N9STK | 3.9 | ±0.3nH | 5 | 100 | 7 | 12 | 15 | 20 | 22 | 6000 | 8600 | 0.30 | 0.20 | 170 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-4N7STK | 4.7 | ±0.3nH | 5 | 100 | 7 | 12 | 15 | 19 | 21 | 5300 | 7600 | 0.40 | 0.25 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-5N6STK | 5.6 | ±0.3nH | 5 | 100 | 7 | 12 | 15 | 19 | 21 | 4600 | 6600 | 0.40 | 0.25 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-6N8JTK | 6.8 | ±5% | 5 | 100 | 7 | 11 | 14 | 18 | 20 | 3900 | 5600 | 0.48 | 0.30 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-8N2JTK | 8.2 | ±5% | 5 | 100 | 7 | 11 | 14 | 18 | 19 | 3400 | 4900 | 0.55 | 0.34 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-10NJTK | 10 | ±5% | 5 | 100 | 7 | 11 | 14 | 17 | 18 | 2900 | 4200 | 0.63 | 0.39 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-12NJTK | 12 | ±5% | 5 | 100 | 7 | 11 | 14 | 17 | 18 | 2700 | 3800 | 0.70 | 0.45 | 100 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-15NJTK | 15 | ±5% | 5 | 100 | 7 | 11 | 13 | 16 | 17 | 2300 | 3300 | 0.80 | 0.50 | 100 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-18NJTK | 18 | ±5% | 5 | 100 | 7 | 11 | 13 | 16 | 17 | 2100 | 3000 | 0.90 | 0.57 | 100 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-22NJTK | 22 | ±5% | 5 | 100 | 7 | 11 | 13 | 15 | 16 | 1800 | 2600 | 1.20 | 0.71 | 100 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-27NJTK | 27 | ±5% | 4 | 100 | 6 | 10 | 12 | 14 | 15 | 1800 | 2600 | 1.80 | 1.11 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-33NJTK | 33 | ±5% | 4 | 100 | 6 | 10 | 12 | 14 | 14 | 1700 | 2400 | 2.10 | 1.33 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-39NJTK | 39 | ±5% | 4 | 100 | 6 | 10 | 12 | 13 | 12 | 1500 | 2100 | 2.40 | 1.51 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-47NJTK | 47 | ±5% | 4 | 100 | 6 | 10 | 11 | 12 | 11 | 1300 | 1800 | 2.80 | 1.74 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-56NJTK | 56 | ±5% | 4 | 100 | 6 | 10 | 11 | 11 | 10 | 1100 | 1600 | 3.00 | 1.85 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-68NJTK | 68 | ±5% | 4 | 100 | 6 | 10 | 11 | 11 | 10 | 1100 | 1500 | 3.00 | 2.30 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-82NJTK | 82 | ±5% | 4 | 100 | 6 | 10 | 11 | 10 | 8 | 1000 | 1400 | 3.50 | 2.60 | 50 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| HK-0603-R10JTK | 100 | ±5% | 4 | 100 | 6 | 9 | 10 | 9 | 6 | 900 | 1200 | 4.00 | 3.00 | 40 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |


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## 0402 Case Size Multilayer Chip Inductors for High Frequency (HK 1005 Series)

| Ordering code | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q | | | | | Self-resonant Frequency (MHz) | | DC Resistance (Ω) | | Maximum Rated Current (mA) | | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Frequency (MHz) | | | | | | | | | | | | |
| | | | | | 100 | 300 | 500 | 800 | 1000 | min. | typ. | max. | tvp. | -55° to 125°C | -55° to 85°C | | |
| HK-1005-1N0STK | 1.0 | ±0.3nH | 8 | 100 | 11 | 25 | 34 | 43 | 52 | 10000 | >13000 | 0.08 | 0.04 | 300 | 900 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-1N2STK | 1.2 | ±0.3nH | 8 | 100 | 11 | 25 | 35 | 44 | 52 | 10000 | >13000 | 0.09 | 0.04 | 300 | 900 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-1N5STK | 1.5 | ±0.3nH | 8 | 100 | 11 | 24 | 33 | 44 | 48 | 6000 | >13000 | 0.10 | 0.05 | 300 | 850 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-1N8STK | 1.8 | ±0.3nH | 8 | 100 | 11 | 23 | 30 | 36 | 42 | 6000 | 11000 | 0.12 | 0.06 | 300 | 700 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-2N0STK | 2 | ±0.3nH | 8 | 100 | 11 | 21 | 27 | 34 | 39 | 6000 | 10500 | 0.12 | 0.06 | 300 | 700 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-2N2STK | 2.2 | ±0.3nH | 8 | 100 | 10 | 18 | 25 | 31 | 36 | 6000 | 10000 | 0.13 | 0.07 | 300 | 700 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-2N4STK | 2.4 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 6000 | 9500 | 0.13 | 0.07 | 300 | 650 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-2N7STK | 2.7 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 34 | 6000 | 9000 | 0.13 | 0.08 | 300 | 650 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-3N0STK | 3 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 6000 | 8500 | 0.16 | 0.09 | 300 | 600 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-3N3STK | 3.3 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 6000 | 8000 | 0.16 | 0.10 | 300 | 550 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-3N6STK | 3.6 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 5000 | 7500 | 0.20 | 0.11 | 300 | 500 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-3N9STK | 3.9 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 4000 | 7000 | 0.21 | 0.12 | 300 | 500 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-4N3STK | 4.3 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 35 | 4000 | 6500 | 0.20 | 0.12 | 300 | 500 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-4N7STK | 4.7 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 34 | 4000 | 6000 | 0.21 | 0.12 | 300 | 500 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-5N1STK | 5.1 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 31 | 34 | 4000 | 5800 | 0.21 | 0.13 | 300 | 450 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-5N6STK | 5.6 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 30 | 35 | 4000 | 5700 | 0.23 | 0.15 | 300 | 430 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-6N2STK | 6.2 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 30 | 34 | 3900 | 5600 | 0.25 | 0.16 | 300 | 430 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-6N8JTK | 6.8 | ±5% | 8 | 100 | 10 | 18 | 23 | 29 | 32 | 3900 | 5500 | 0.25 | 0.17 | 300 | 430 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-7N5JTK | 7.5 | ±5% | 8 | 100 | 10 | 18 | 23 | 29 | 32 | 3700 | 5200 | 0.25 | 0.18 | 300 | 400 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-8N2JTK | 8.2 | ±5% | 8 | 100 | 10 | 18 | 23 | 29 | 31 | 3600 | 4900 | 0.28 | 0.21 | 300 | 380 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-9N1JTK | 9.1 | ±5% | 8 | 100 | 10 | 18 | 23 | 29 | 31 | 3400 | 4500 | 0.30 | 0.22 | 300 | 360 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-10NJTK | 10 | ±5% | 8 | 100 | 10 | 18 | 23 | 29 | 31 | 3200 | 4300 | 0.31 | 0.23 | 300 | 340 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-12NJTK | 12 | ±5% | 8 | 100 | 11 | 18 | 23 | 29 | 31 | 2700 | 3900 | 0.40 | 0.28 | 300 | 330 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-15NJTK | 15 | ±5% | 8 | 100 | 11 | 18 | 23 | 28 | 30 | 2300 | 3500 | 0.46 | 0.31 | 300 | 320 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-18NJTK | 18 | ±5% | 8 | 100 | 11 | 18 | 23 | 28 | 30 | 2100 | 3100 | 0.55 | 0.35 | 300 | 310 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-22NJTK | 22 | ±5% | 8 | 100 | 11 | 17 | 22 | 26 | 27 | 1900 | 2800 | 0.60 | 0.42 | 300 | 300 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-27NJTK | 27 | ±5% | 8 | 100 | 11 | 17 | 21 | 25 | 26 | 1600 | 2300 | 0.70 | 0.47 | 300 | 300 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-33NJTK | 33 | ±5% | 8 | 100 | 11 | 16 | 20 | 23 | 22 | 1300 | 1900 | 0.80 | 0.50 | 200 | 250 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-39NJTK | 39 | ±5% | 8 | 100 | 11 | 16 | 20 | 23 | 21 | 1200 | 1700 | 0.90 | 0.52 | 200 | 250 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-47NJTK | 47 | ±5% | 8 | 100 | 11 | 16 | 19 | 21 | 18 | 1000 | 1500 | 1.00 | 0.58 | 200 | 230 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-56NJTK | 56 | ±5% | 8 | 100 | 11 | 16 | 18 | 18 | 16 | 750 | 1300 | 1.00 | 0.61 | 200 | 220 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-68NJTK | 68 | ±5% | 8 | 100 | 11 | 15 | 17 | 18 | 11 | 750 | 1200 | 1.20 | 0.70 | 180 | 200 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-82NJTK | 82 | ±5% | 8 | 100 | 10 | 14 | 16 | 15 | 6 | 600 | 1100 | 1.30 | 0.81 | 150 | 200 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-R10JTK | 100 | ±5% | 8 | 100 | 10 | 14 | 14 | 12 | - | 600 | 1000 | 1.50 | 0.94 | 150 | 200 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |
| HK-1005-R12JTK | 120 | ±5% | 8 | 100 | 10 | 12 | 10 | - | - | 600 | 800 | 1.60 | 1.10 | 150 | 200 | 0.50 ±0.05 (0.02 ±0.002) | 10,000 |

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## 0603 Case Size Multilayer Chip Inductors for High Frequency (HK 1608 Series)

| Ordering Code | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q | | | | | Self-resonant Frequency (MHz) | | DC Resistance (Ω) | | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Frequency (MHz) | | | | | | | | | | | |
| | | | | | 100 | 300 | 500 | 800 | 1000 | min. | typ | max. | typ. | | | |
| HK-1608-1N0STK | 1.0 | ±0.3nH | 8 | 100 | 14 | 30 | 40 | 70 | 90 | 10000 | >13000 | 0.05 | 0.015 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-1N2STK | 1.2 | ±0.3nH | 8 | 100 | 14 | 30 | 40 | 70 | 90 | 10000 | >13000 | 0.05 | 0.015 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-1N5STK | 1.5 | ±0.3nH | 8 | 100 | 14 | 26 | 34 | 47 | 50 | 6000 | >13000 | 0.10 | 0.03 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-1N8STK | 1.8 | ±0.3nH | 8 | 100 | 10 | 18 | 24 | 30 | 34 | 6000 | >13000 | 0.10 | 0.06 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-2N2STK | 2.2 | ±0.3nH | 8 | 100 | 12 | 22 | 29 | 37 | 40 | 6000 | 12000 | 0.10 | 0.06 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-2N7STK | 2.7 | ±0.3nH | 10 | 100 | 13 | 24 | 32 | 41 | 45 | 6000 | 11000 | 0.10 | 0.06 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-3N3STK | 3.3 | ±0.3nH | 10 | 100 | 14 | 25 | 33 | 42 | 47 | 6000 | 9000 | 0.12 | 0.06 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-3N9STK | 3.9 | ±0.3nH | 10 | 100 | 13 | 25 | 33 | 42 | 46 | 6000 | 8000 | 0.14 | 0.07 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-4N7STK | 4.7 | ±0.3nH | 10 | 100 | 13 | 25 | 33 | 42 | 47 | 4000 | 6500 | 0.16 | 0.08 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-5N6STK | 5.6 | ±0.3nH | 10 | 100 | 14 | 25 | 33 | 42 | 46 | 4000 | 5800 | 0.18 | 0.09 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-6N8JTK | 6.8 | ±5% | 10 | 100 | 14 | 25 | 33 | 43 | 47 | 4000 | 5600 | 0.22 | 0.11 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-8N2JTK | 8.2 | ±5% | 10 | 100 | 14 | 26 | 34 | 44 | 48 | 3500 | 5200 | 0.24 | 0.13 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-10NJTK | 10 | ±5% | 12 | 100 | 14 | 26 | 34 | 43 | 47 | 3400 | 4600 | 0.26 | 0.16 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-12NJTK | 12 | ±5% | 12 | 100 | 14 | 27 | 35 | 45 | 49 | 2600 | 4000 | 0.28 | 0.17 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-15NJTK | 15 | ±5% | 12 | 100 | 15 | 28 | 37 | 46 | 51 | 2300 | 3400 | 0.32 | 0.20 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-18NJTK | 18 | ±5% | 12 | 100 | 15 | 27 | 36 | 44 | 48 | 2000 | 3000 | 0.35 | 0.21 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-16O8-22NJTK | 22 | ±5% | 12 | 100 | 16 | 28 | 36 | 44 | 47 | 1600 | 2900 | 0.40 | 0.25 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-27NJTK | 27 | ±5% | 12 | 100 | 16 | 29 | 37 | 45 | 46 | 1400 | 2200 | 0.45 | 0.28 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-33NJTK | 33 | ±5% | 12 | 100 | 17 | 31 | 40 | 46 | 47 | 1200 | 1800 | 0.55 | 0.35 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-39NJTK | 39 | ±5% | 12 | 100 | 18 | 31 | 39 | 44 | 44 | 1100 | 1600 | 0.60 | 0.38 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-47NJTK | 47 | ±5% | 12 | 100 | 17 | 28 | 34 | 35 | 34 | 900 | 1600 | 0.70 | 0.45 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-56NJTK | 56 | ±5% | 12 | 100 | 17 | 28 | 34 | 34 | 31 | 900 | 1400 | 0.75 | 0.50 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-68NJTK | 68 | ±5% | 12 | 100 | 18 | 29 | 34 | 30 | 22 | 700 | 1200 | 0.85 | 0.55 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-82NJTK | 82 | ±5% | 12 | 100 | 18 | 28 | 33 | 27 | - | 600 | 1100 | 0.95 | 0.60 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-RI0JTK | 100 | ±5% | 12 | 100 | 18 | 27 | 28 | 16 | - | 600 | 1000 | 1.00 | 0.65 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R12JTK | 120 | ±5% | 8 | 50 | 16 | 24 | 23 | - | - | 500 | 800 | 1.20 | 0.68 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R15JTK | 150 | ±5% | 8 | 50 | 13 | 19 | 16 | - | - | 500 | 800 | 1.20 | 0.73 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-RI8JTK | 180 | ±5% | 8 | 50 | 13 | 18 | 12 | - | - | 400 | 700 | 1.30 | 0.85 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R22JTK | 220 | ±5% | 8 | 50 | 12 | 16 | - | - | - | 400 | 600 | 1.50 | 0.95 | 300 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R27JTK | 270 | ±5% | 8 | 50 | 14 | 15 | - | - | - | 400 | 550 | 1.90 | 1.34 | 150 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R33JTK | 330 | ±5% | 8 | 50 | 14 | - | - | - | - | 350 | 480 | 2.10 | 1.53 | 150 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R39JTK | 390 | ±5% | 8 | 50 | 13 | - | - | - | - | 350 | 410 | 2.30 | 1.72 | 150 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| HK-1608-R47JTK | 470 | ±5% | 8 | 50 | 13 | - | - | - | - | 300 | 360 | 2.60 | 2.04 | 150 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |


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## 0805 Case Size Multilayer Chip Inductors for High Frequency (HK 2125 Series)

| Ordering Code | Inductance (nH) | Inductance Tolerance | Q min. | Measuring Frequency (MHz) | Typical Q | | | | | Self-resonant Frequency (MHz) | | DC Resistance (Ω) | | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Frequency (MHz) | | | | | | | | | | | |
| | | | | | 100 | 300 | 500 | 800 | 1000 | min. | typ. | max. | typ. | | | |
| HK-2125-1N5STK | 1.5 | ±0.3nH | 10 | 100 | 21 | 39 | 57 | 61 | 68 | 4000 | >6000 | 0.10 | 0.02 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-1N8STK | 1.8 | ±0.3nH | 10 | 100 | 18 | 35 | 49 | 55 | 59 | 4000 | >6000 | 0.10 | 0.02 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-2N2STK | 2.2 | ±0.3nH | 10 | 100 | 18 | 33 | 46 | 53 | 58 | 4000 | >6000 | 0.10 | 0.03 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2I25-2N7STK | 2.7 | ±0.3nH | 12 | 100 | 19 | 36 | 50 | 56 | 60 | 4000 | >6000 | 0.10 | 0.03 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-3N3STK | 3.3 | ±0.3nH | 12 | 100 | 16 | 29 | 40 | 47 | 51 | 4000 | >6000 | 0.13 | 0.04 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-3N9STK | 3.9 | ±0.3nH | 12 | 100 | 18 | 33 | 46 | 54 | 60 | 4000 | >6000 | 0.15 | 0.05 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-4N7STK | 4.7 | ±0.3nH | 12 | 100 | 18 | 34 | 46 | 55 | 60 | 3500 | >6000 | 0.20 | 0.05 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-5N6STK | 5.6 | ±0.3nH | 15 | 100 | 20 | 38 | 51 | 60 | 66 | 3200 | 5400 | 0.23 | 0.05 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-6N8JTK | 6.8 | ±5% | 15 | 100 | 20 | 39 | 52 | 63 | 69 | 2800 | 4200 | 0.25 | 0.06 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-8N2JTK | 8.2 | ±5% | 15 | 100 | 21 | 40 | 54 | 63 | 70 | 2400 | 3700 | 0.28 | 0.07 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-10NJTK | 10 | ±5% | 15 | 100 | 20 | 38 | 51 | 60 | 67 | 2100 | 3100 | 0.30 | 0.09 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-I2NJTK | 12 | ±5% | 15 | 100 | 21 | 39 | 52 | 60 | 67 | 1900 | 3000 | 0.35 | 0.10 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-15NJTK | 15 | ±5% | 15 | 100 | 22 | 42 | 55 | 63 | 72 | 1600 | 2600 | 0.40 | 0.11 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-18NJTK | 18 | ±5% | 15 | 100 | 24 | 44 | 57 | 63 | 72 | 1500 | 2300 | 0.45 | 0.13 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-22NJTK | 22 | ±5% | 18 | 100 | 23 | 43 | 55 | 60 | 69 | 1400 | 2100 | 0.50 | 0.16 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-27NJTK | 27 | ±5% | 18 | 100 | 23 | 42 | 53 | 58 | 68 | 1300 | 1800 | 0.55 | 0.17 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-33NJTK | 33 | ±5% | 18 | 100 | 24 | 43 | 54 | 55 | 60 | 1200 | 1700 | 0.60 | 0.19 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-39NJTK | 39 | ±5% | 18 | 100 | 23 | 41 | 50 | 47 | 47 | 1000 | 1400 | 0.65 | 0.25 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| HK-2125-47NJTK | 47 | ±5% | 18 | 100 | 23 | 41 | 49 | 43 | 41 | 900 | 1200 | 0.70 | 0.26 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-56NJTK | 56 | ±5% | 18 | 100 | 23 | 42 | 48 | 39 | 38 | 800 | 1100 | 0.75 | 0.28 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-68NJTK | 68 | ±5% | 18 | 100 | 25 | 42 | 45 | 30 | - | 700 | 900 | 0.80 | 0.33 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-82NJTK | 82 | ±5% | 18 | 100 | 24 | 41 | 41 | | | 600 | 800 | 0.90 | 0.37 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-R10JTK | 100 | ±5% | 18 | 100 | 23 | 37 | 37 | | | 600 | 800 | 0.90 | 0.40 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2I25-R12JTK | 120 | ±5% | 13 | 50 | 22 | 33 | 29 | | - | 500 | 700 | 0.95 | 0.43 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-RI5JTK | 150 | ±5% | 13 | 50 | 22 | 34 | 26 | | - | 500 | 700 | 1.00 | 0.46 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-RI8JTK | 180 | ±5% | 13 | 50 | 23 | 34 | 20 | | - | 400 | 600 | 1.10 | 0.50 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-R22JTK | 220 | ±5% | 12 | 50 | 20 | 23 | | | | 350 | 550 | 1.20 | 0.75 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-R27JTK | 270 | ±5% | 12 | 50 | 20 | 19 | | | | 300 | 480 | 0.30 | 0.85 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2I25-R33JTK | 330 | ±5% | 12 | 50 | 22 | 15 | | | | 250 | 400 | 1.40 | 0.90 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2125-R39JTK | 390 | ±5% | 10 | 50 | 17 | 12 | | | | 250 | 400 | 1.30 | 0.85 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |
| HK-2I25-R47JTK | 470 | ±5% | 10 | 50 | 17 | | | | | 200 | 350 | 0.50 | 0.95 | 300 | 1.0 +0.2/-0.3 (0.039 +0.008/-0.012) | 3,000 |

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# Multilayer Chip Inductors - LK/CK/CKP Series

**Features:**
- Internal printed coil structure creates a closed magnetic circuit which acts as a magnetic shield eliminating crosstalk, thus permitting higher mounting densities.
- Multilayer block structure yields higher reliability
- The smallest mH inductors in the world (LK1005 Series)
- Low profile below 1mm on 1206 case size (CKP Series)
- Low DC power dissipation due to Low Rdc with High Aspect Ratio internal conductor that stands on the Green Sheet and Printing technologies (CKP Series)

**Operating Temperature:**
- -40ºC to +85ºC

**Applications:**
- Any general circuit in portable equipment in which a compact size and high mounting densities are required (LK Series)
- Separation of analog and digital circuits (CK Series)
- Prevents interference between PLL and other digital circuits (CK Series)
- DC/DC convertor for mobile equipment, cellular phones, DSC and DVC (CK Series)

## Part Numbering Table

**LK- 1005 - 1R5 K T K**

**Type**
LK- = Standard Type
CKP = High Current Type for Power Supply Line
CK- = Standard Type

**Case Size**
1005 (0402)
1608 (0603)
2125 (0805)
3216 (1206)

**Inductance**
47N = 0.047µH
R15 = 0.15µH
1R5 = 1.5µH
100 = 10µH
150 = 15µH

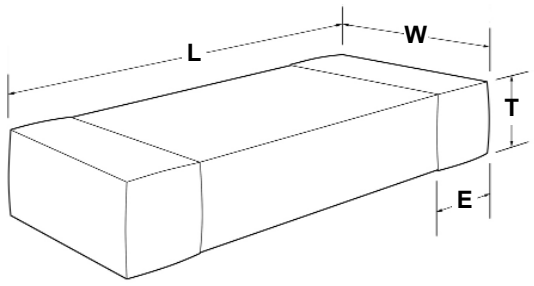
**KEMET Designator**

**Packaging Code**
T = Tape & Reel

**Inductance Tolerance**
K = ±10%, M = ±20%

**(-) Required to complete Part Number**

## Dimension Table in millimeters (inches)




| Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|
| 1005 | 0402 | 1.0 ±0.05 (0.039 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.25 ±0.10 (0.010 ±0.004) |
| 1608 | 0603 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 2125 | 0805 | 2.0 +0.3/-0.1 (0.079 _0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2<br>1.25 ±0.2<br>(0.033 ±0.008)<br>(0.049 ±0.008) | 0.5 ±0.2 (0.02 ±0.008) |
| 3216 | 1206 | 3.2 ±0.2 (0.126 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.8 +0.10/-0.15 (0.031 +0.004/-0.008) | 0.6 ±0.3 (0.024 ±0.012) |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## 0402 Case Size Multilayer Chip Inductors (LK 1005 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|
| LK-1005-R12(_)TK | 0.12 | K±10%. M±20% | 10 | 180 | 0.70 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R15(_)TK | 0.15 | K±10%. M±20% | 10 | 165 | 0.90 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R18(_)TK | 0.18 | K±10%. M±20% | 10 | 150 | 1.10 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R22(_)TK | 0.22 | K±10%. M±20% | 10 | 135 | 1.30 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R27(_)TK | 0.27 | K±10%. M±20% | 10 | 120 | 1.50 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R33(_)TK | 0.33 | K±10%. M±20% | 10 | 105 | 1.70 | 25 | 25 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R39(_)TK | 0.39 | K±10%. M±20% | 20 | 85 | 0.60 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R47(_)TK | 0.47 | K±10%. M±20% | 20 | 80 | 0.70 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R56(_)TK | 0.56 | K±10%. M±20% | 20 | 75 | 0.80 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R68(_)TK | 0.68 | K±10%. M±20% | 20 | 70 | 0.90 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-R82(_)TK | 0.82 | K±10%. M±20% | 20 | 65 | 1.00 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-1R0(_)TK | 1.0 | K±10%. M±20% | 20 | 60 | 1.10 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-1R2(_)TK | 1.2 | K±10%. M±20% | 20 | 55 | 1.25 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-1R5(_)TK | 1.5 | K±10%. M±20% | 20 | 50 | 1.40 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-IR8(_)TK | 1.8 | K±10%. M±20% | 20 | 45 | 1.55 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |
| LK-1005-2R2(_)TK | 2 2 | K±10%. M±20% | 20 | 40 | 1.70 | 10 | 10 | 0.5 ±0.05 (0.02 ±0.002) | 10,000 |

(_) - Insert Inductance Tolerance Code (K or M)

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## 0603 Case Size Multilayer Chip Inductors (LK 1608 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|
| LK-1608-47NMTK | 0.047 | ±20% | 10 | 260 | 0.30 | 50 | 50 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-68NMTK | 0.068 | ±20% | 10 | 250 | 0.30 | 50 | 50 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-82NMTK | 0.082 | ±20% | 10 | 245 | 0.30 | 50 | 50 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R10(_)TK | 0.10 | K±10%, M±20% | 15 | 240 | 0.50 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R12(_)TK | 0.12 | K±10%, M±20% | 15 | 205 | 0.50 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R15(_)TK | 0.15 | K±10%, M±20% | 15 | 180 | 0.60 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R18(_)TK | 0.18 | K±10%, M±20% | 15 | 165 | 0.60 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R22(_)TK | 0.22 | K±10%, M±20% | 15 | 150 | 0.80 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R27(_)TK | 0.27 | K±10%, M±20% | 15 | 136 | 0.80 | 50 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R33(_)TK | 0.33 | K±10%, M±20% | 15 | 125 | 0.85 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R39(_)TK | 0.39 | K±10%, M±20% | 15 | 110 | 1.00 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R47(_)TK | 0.47 | K±10%, M±20% | 15 | 105 | 1.35 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R56(_)TK | 0.56 | K±10%, M±20% | 15 | 95 | 1.55 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R68(_)TK | 0.68 | K±10%, M±20% | 15 | 80 | 1.70 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-R82(_)TK | 0.82 | K±10%, M±20% | 15 | 75 | 2.10 | 35 | 25 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-1R0(_)TK | 1.0 | K±10%, M±20% | 35 | 70 | 0.60 | 25 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-1R2(_)TK | 1.2 | K±10%, M±20% | 35 | 60 | 0.80 | 25 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-1R5(_)TK | 1.5 | K±10%, M±20% | 35 | 55 | 0.80 | 25 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-1R8(_)TK | 1.8 | K±10%, M±20% | 35 | 50 | 0.95 | 25 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-2R2(_)TK | 2.2 | K±10%, M±20% | 35 | 45 | 1.15 | 15 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-2R7(_)TK | 2.7 | K±10%, M±20% | 35 | 40 | 1.35 | 15 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-3R3(_)TK | 3.3 | K±10%, M±20% | 35 | 38 | 1.55 | 15 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-3R9(_)TK | 3.9 | K±10%, M±20% | 35 | 36 | 1.70 | 15 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-4R7(_)TK | 4.7 | K±10%, M±20% | 35 | 33 | 2.10 | 15 | 10 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-5R6(_)TK | 5.6 | K±10%, M±20% | 35 | 22 | 1.55 | 5 | 4 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-6R8(_)TK | 6.8 | K±10%, M±20% | 35 | 20 | 1.70 | 5 | 4 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-8R2(_)TK | 8.2 | K±10%, M±20% | 35 | 18 | 2.10 | 5 | 4 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-100(_)TK | 10 | K±10%, M±20% | 35 | 17 | 2.55 | 5 | 2 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-120(_)TK | 12 | K±10%, M±20% | 35 | 15 | 2.75 | 5 | 2 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-150MTK | 15 | ±20% | 20 | 14 | 1.70 | 1 | 1 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-180MTK | 18 | ±20% | 20 | 13 | 1.85 | 1 | 1 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-220MTK | 22 | ±20% | 20 | 1 1 | 2.10 | 1 | 1 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-270MTK | 27 | ±20% | 20 | 10 | 2.75 | 1 | 1 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |
| LK-1608-330MTK | 33 | ±20% | 20 | 9 | 2.95 | 1 | 1 | 0.8 ±0.15 (0.031 ±0.006) | 4,000 |

(_) - Insert Inductance Tolerance Code (K or M)


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## 0805 Case Size Multilayer Chip Inductors (LK 2125 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Q min. | Minimum Self Resonant Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|---|
| LK-2125-47NMTK | 0.047 | ±20% | 15 | 320 | 0.20 | 300 | 50 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-68NMTK | 0.068 | ±20% | 15 | 280 | 0.20 | 300 | 50 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-82NMTK | 0.082 | ±20% | 15 | 255 | 0.20 | 300 | 50 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R10(_)TK | 0.10 | K±10%, M±20% | 20 | 235 | 0.30 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R12(_)TK | 0.12 | K±10%, M±20% | 20 | 220 | 0.30 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R15(_)TK | 0.15 | K±10%, M±20% | 20 | 200 | 0.40 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R18(_)TK | 0.18 | K±10%, M±20% | 20 | 185 | 0.40 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R22(_)TK | 0.22 | K±10%, M±20% | 20 | 170 | 0.50 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R27(_)TK | 0.27 | K±10%, M±20% | 20 | 150 | 0.50 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R33(_)TK | 0.33 | K±10%, M±20% | 20 | 145 | 0.55 | 250 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R39(_)TK | 0.39 | K±10%, M±20% | 25 | 135 | 0.65 | 200 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-R47(_)TK | 0.47 | K±10%, M±20% | 25 | 125 | 0.65 | 200 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-R56(_)TK | 0.56 | K±10%, M±20% | 25 | 115 | 0.75 | 150 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-R68(_)TK | 0.68 | K±10%, M±20% | 25 | 105 | 0.80 | 150 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-R82(_)TK | 0.82 | K±10%, M±20% | 25 | 100 | 1.00 | 150 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-1R0(_)TK | 1.0 | K±10%, M±20% | 45 | 75 | 0.40 | 50 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-1R2(_)TK | 1.2 | K±10%, M±20% | 45 | 65 | 0.50 | 50 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-1R5(_)TK | 1.5 | K±10%, M±20% | 45 | 60 | 0.50 | 50 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-1R8(_)TK | 1.8 | K±10%, M±20% | 45 | 55 | 0.60 | 50 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-2R2(_)TK | 2.2 | K±10%, M±20% | 45 | 50 | 0.65 | 30 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| LK-2125-2R7(_)TK | 2.7 | K±10%, M±20% | 45 | 45 | 0.75 | 30 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-3R3(_)TK | 3.3 | K±10%, M±20% | 45 | 41 | 0.80 | 30 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-3R9(_)TK | 3.9 | K±10%, M±20% | 45 | 38 | 0.90 | 30 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-4R7(_)TK | 4.7 | K±10%, M±20% | 45 | 35 | 1.00 | 30 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-5R6(_)TK | 5.6 | K±10%, M±20% | 50 | 32 | 0.90 | 15 | 4 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-6R8(_)TK | 6.8 | K±10%, M±20% | 50 | 29 | 1.00 | 15 | 4 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-8R2(_)TK | 8.2 | K±10%, M±20% | 50 | 26 | 1.10 | 15 | 4 | 1.25 ±0.2 (0.049±0.008) | 2,000 |
| LK-2125-100(_)TK | 10 | K±10%, M±20% | 50 | 24 | 1.15 | 15 | 2 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-120(_)TK | 12 | K±10%, M±20% | 50 | 22 | 1.25 | 15 | 2 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK2-125-150MTK | 15 | ±20% | 30 | 19 | 0.80 | 5 | 1 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-180MTK | 18 | ±20% | 30 | 18 | 0.90 | 5 | 1 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-220MTK | 22 | ±20% | 30 | 16 | 1.10 | 5 | 1 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-270MTK | 27 | ±20% | 30 | 14 | 1.15 | 5 | 1 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| LK-2125-330MTK | 33 | ±20% | 30 | 13 | 1.25 | 5 | 0.4 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |

(_) Insert Tolerence Code (K±10% or M±20%) listed to the right

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## 0603 Case Size Multilayer Chip Inductors (CK 1608 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Inductance at 200mA (µH) | Maximum DC Resistance **(Ω)** | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| CK-1608-4R7MTK | 4.7 | ±20% | 20 | 0.45 | 60 | 4 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| CK-1608-100MTK | 10.0 | ±20% | 20 | 0.85 | 50 | 2 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |

## 0805 Case Size Multilayer Chip Inductors (CK 2125 Series)

| **Ordering Code** | **Inductance (µH)** | **Inductance Tolerance** | **Q min.** | **Minimum Self Resonant Frequency (MHz)** | Maximum DC Resistance **(Ω)** | **Maximum Rated Current (mA)** | **Measuring Frequency (MHz)** | **Thickness mm (inches)** | **Tape & Reel Packaging Quantity** |
|---|---|---|---|---|---|---|---|---|---|
| CK-2125-R10MTK | 0.10 | ±20% | 15 | 235 | 0.16 | 500 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-R15MTK | 0.15 | ±20% | 15 | 200 | 0.20 | 500 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-R22MTK | 0.22 | ±20% | 15 | 170 | 0.23 | 400 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-R33MTK | 0.33 | ±20% | 15 | 145 | 0.28 | 400 | 25 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-R47MTK | 0.47 | ±20% | 15 | 125 | 0.32 | 400 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| CK-2125-R68MTK | 0.68 | ±20% | 15 | 105 | 0.45 | 300 | 25 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| CK-2125-1R0MTK | 1.0 | ±20% | 20 | 75 | 0.26 | 220 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-1R5MTK | 1.5 | ±20% | 20 | 60 | 0.28 | 170 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-2R2MTK | 2.2 | ±20% | 20 | 50 | 0.35 | 150 | 10 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| CK-2125-3R3MTK | 3.3 | ±20% | 20 | 41 | 0.43 | 130 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| CK-2125-4R7MTK | 4.7 | ±20% | 20 | 35 | 0.48 | 80 | 10 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| CK-2125-6R8MTK | 6.8 | ±20% | 20 | 29 | 0.52 | 70 | 4 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| CK-2125-100MTK | 10.0 | ±20% | 20 | 24 | 0.65 | 60 | 2 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |

## 1206 Case Size Multilayer Chip Inductors (CKP 3216 Series)

| Ordering Code | Inductance (µH) | Inductance Tolerance | Minimum Inductance at 200mA (µH) | Maximum DC Resistance **(Ω)** | Maximum Rated Current (mA) | Measuring Frequency (MHz) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| CKP3216-1R0MTK | 1.0 | ±20% | 0.5 | 0.11 | 1100 | 1 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| CKP3216-1R5MTK | 1.5 | ±20% | 0.8 | 0.13 | 1000 | 1 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| CKP3216-2R2MTK | 2.2 | ±20% | 1.1 | 0.14 | 900 | 1 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| CKP3216-3R3MTK | 3.3 | ±20% | 1.4 | 0.16 | 800 | 1 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| CKP3210-4R7MTK | 4.7 | ±20% | 1.9 | 0.20 | 700 | 1 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |


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## Low Profile SMD Inductors (NR Series)

**Features:**
- Small and low profile inductor
- Corresponds to high current
- Simple and original magnetic shield structure
- Structure strong against shock-proof

**Applications:**
- For small DC/DC converter; cellular phones, HDD, HVC, DSC, and PDA LCD display

**Operating Temperature:**
- -25ºC to +120ºC (including self-generated heat)

## Part Numbering Table

**NR- 4012 T 100 M - K**

**Type**
NR- = Coating resin specification

**Case Size**
3010, 4010, 4012, 4018, 6012, 8040

**Packaging Code**
T = Tape & Reel

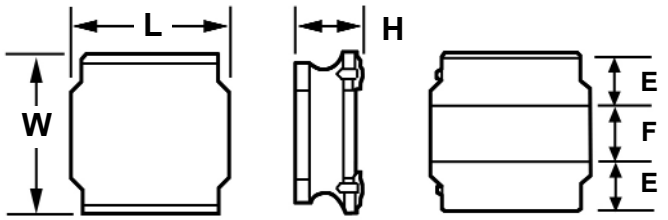
**KEMET Designator**

**Inductance Tolerance**
M = ±20%, N = 30%

**Inductance**
**Examples:** 2R2 = 2.2µH
100 = 10µH
101 = 100µH

**(-) Required to complete Part Number**

## Dimension Table in millimeters (inches)




| Dim. Code | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) | F |
|---|---|---|---|---|---|
| 3010 | 3.0 ±0.1 (0.118 ±0.004) | 3.0 ±0.1 (0.118 ±0.004) | 1.0 max. (0.039 max.) | 0.9 ±0.2 (0.035 ±0.008) | 1.9 ±0.2 (0.075 ±0.008) |
| 4010 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.0 max. (0.039 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 4012 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.2 max. (0.047 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 4018 | 4.0 ±0.2 (0.157 ±0.008) | 4.0 ±0.2 (0.157 ±0.008) | 1.2 max. (0.047 max.) | 1.1 ±0.2 (0.043 ±0.008) | 2.5 ±0.2 (0.098 ±0.008) |
| 6012 | 6.0 ±0.2 (0.236 ±0.008) | 6.0 ±0.2 (0.236 ±0.008) | 1.2 max. (0.047 max.) | 1.0 ±0.2 (0.039 ±0.008) | 4.8 ±0.2 (0.189 ±0.008) |
| 8040 | 8.0 ±0.2 (0.315 ±0.008) | 8.0 ±0.2 (0.315 ±0.008) | 4.2 max (0.165 max) | 1.6 ±0.3 (0.063 ±0.012) | 5.6 ±0.3 (0.220 ±0.012) |

### Dimensions 3.0mm x 3.0mm (NR3010 Type, 1.0mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Heigh (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-3010T1R0N-K | 1.0 | ±30% | 100 | 126 | 0.065 | 1300 | 1.0 | 2,000 |
| NR-3010T1R5N-K | 1.5 | ±30% | 100 | 98 | 0.08 | 1200 | 1.0 | 2,000 |
| NR-3010T2R2M-K | 2.2 | ±20% | 100 | 82 | 0.095 | 1100 | 1.0 | 2,000 |
| NR-3010T3R3M-K | 3.3 | ±20% | 100 | 63 | 0.14 | 870 | 1.0 | 2,000 |
| NR-3010T4R7M-K | 4.7 | ±20% | 100 | 56 | 0.19 | 750 | 1.0 | 2,000 |
| NR-3010T6R8M-K | 6.8 | ±20% | 100 | 46 | 0.30 | 610 | 1.0 | 2,000 |
| NR-3010T100M-K | 10 | ±20% | 100 | 35 | 0.45 | 500 | 1.0 | 2,000 |
| NR-3010T150M-K | 15 | ±20% | 100 | 30 | 0.74 | 400 | 1.0 | 2,000 |
| NR-3010T220M-K | 22 | ±20% | 100 | 25 | 1.03 | 350 | 1.0 | 2,000 |
| NR-3010T330M-K | 33 | ±20% | 100 | 20 | 1.55 | 260 | 1.0 | 2,000 |
| NR-3010T470M-K | 47 | ±20% | 100 | 17 | 2.05 | 220 | 1.0 | 2,000 |

### Dimensions 4.0mm x 4.0mm (NR4010 Type, 1.0mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-4010T1R0N-K | 1.0 | ±30% | 100 | 116 | 0.10 | 1050 | 1.0 | 5,000 |
| NR-4010T2R2M-K | 2.2 | ±30% | 100 | 73 | 0.15 | 890 | 1.0 | 5,000 |
| NR-4010T3R3M-K | 3.3 | ±20% | 100 | 58 | 0.18 | 820 | 1.0 | 5,000 |
| NR-4010T4R7M-K | 4.7 | ±20% | 100 | 47 | 0.21 | 750 | 1.0 | 5,000 |
| NR-4010T6R8M-K | 6.8 | ±20% | 100 | 38 | 0.30 | 620 | 1.0 | 5,000 |
| NR-4010T100M-K | 10 | ±20% | 100 | 31 | 0.38 | 560 | 1.0 | 5,000 |
| NR-4010T150M-K | 15 | ±20% | 100 | 24 | 0.51 | 470 | 1.0 | 5,000 |
| NR-4010T220M-K | 22 | ±20% | 100 | 19 | 0.87 | 360 | 1.0 | 5,000 |
| NR-4010T330M-K | 33 | ±20% | 100 | 15 | 1.54 | 280 | 1.0 | 5,000 |
| NR-4010T470M-K | 47 | ±20% | 100 | 13 | 1.81 | 240 | 1.0 | 5,000 |

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## Dimensions 4.0mm x 4.0mm (NR4012 Type, 1.2mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Height (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-4012T2R2M-K | 2.2 | ±20% | 100 | 66 | 0.09 | 1200 | 1.2 | 4,500 |
| NR-4012T3R3M-K | 3.3 | ±20% | 100 | 50 | 0.13 | 980 | 1.2 | 4,500 |
| NR-4012T4R7M-K | 4.7 | ±20% | 100 | 45 | 0.14 | 960 | 1.2 | 4,500 |
| NR-4012T6R8M-K | 6.8 | ±20% | 100 | 35 | 0.18 | 840 | 1.2 | 4,500 |
| NR-4012T100M-K | 10 | ±20% | 100 | 28 | 0.24 | 740 | 1.2 | 4,500 |
| NR-4012T150M-K | 15 | ±20% | 100 | 23 | 0.40 | 560 | 1.2 | 4,500 |
| NR-4012T-220M-K | 22 | ±20% | 100 | 18 | 0.48 | 510 | 1.2 | 4,500 |
| NR-4012T330M-K | 33 | ±20% | 100 | 15 | 0.81 | 400 | 1.2 | 4,500 |
| NR-4012T470M-K | 47 | ±20% | 100 | 12 | 1.00 | 350 | 1.2 | 4,500 |

## Dimensions 4.0mm x 4.0mm (NR4018 Type, 1.8mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Heigh (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-4018T1R0N-K | 1.0 | ±30% | 100 | 80 | 0.03 | 1830 | 1.8 | 3,500 |
| NR-4018T2R2M-K | 2.2 | ±20% | 100 | 52 | 0.06 | 1440 | 1.8 | 3,500 |
| NR-4018T3R3M-K | 3.3 | ±20% | 100 | 44 | 0.07 | 1230 | 1.8 | 3,500 |
| NR-4018T4R7M-K | 4.7 | ±20% | 100 | 34 | 0.09 | 1200 | 1.8 | 3,500 |
| NR-4018T6R8M-K | 6.8 | ±20% | 100 | 29 | 0.11 | 1060 | 1.8 | 3,500 |
| NR-4018T100M-K | 10 | ±20% | 100 | 24 | 0.18 | 840 | 1.8 | 3,500 |
| NR-4018T150M-K | 15 | ±20% | 100 | 19 | 0.25 | 650 | 1.8 | 3,500 |
| NR-4018T220M-K | 22 | ±20% | 100 | 16 | 0.36 | 590 | 1.8 | 3,500 |
| NR-4018T330M-K | 33 | ±20% | 100 | 12 | 0.53 | 490 | 1.8 | 3,500 |
| NR-4018T470M-K | 47 | ±20% | 100 | 10 | 0.65 | 420 | 1.8 | 3,500 |
| NR-4018T680M-K | 68 | ±20% | 100 | 8.3 | 1.00 | 320 | 1.8 | 3,500 |
| NR-4018T101M-K | 100 | ±20% | 100 | 6.5 | 1.50 | 280 | 1.8 | 3,500 |
| NR-4018T221M-K | 200 | ±20% | 100 | 4 | 4.00 | 170 | 1.8 | 3,500 |

## Dimensions 6.0mm x 6.0mm (NR6012 Type, 1.2mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Heigh (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-6012T3R0M-K | 3.0 | ±20% | 100 | 45 | 0.092 | 1730 | 1.2 | 1,000 |
| NR-6012T4R0M-K | 4.0 | ±20% | 100 | 39 | 0.107 | 1570 | 1.2 | 1,000 |
| NR-6012T5R3M-K | 5.3 | ±20% | 100 | 34 | 0.125 | 1400 | 1.2 | 1,000 |
| NR-6012T6R8M-K | 6.8 | ±20% | 100 | 30 | 0.165 | 1180 | 1.2 | 1,000 |
| NR-6012T100M-K | 10 | ±20% | 100 | 22 | 0.24 | 1000 | 1.2 | 1,000 |
| NR-6012T150M-K | 15 | ±20% | 100 | 18 | 0.33 | 790 | 1.2 | 1,000 |
| NR-6012T220M-K | 22 | ±20% | 100 | 12 | 0.55 | 630 | 1.2 | 1,000 |
| NR-6012T330M-K | 33 | ±20% | 100 | 8 | 0.71 | 530 | 1.2 | 1,000 |
| NR-6012T470M-K | 47 | ±20% | 100 | 6 | 1.13 | 460 | 1.2 | 1,000 |
| NR-6012T680M-K | 68 | ±20% | 100 | 3 | 1.35 | 410 | 1.2 | 1,000 |
| NR-6012T101M-K | 100 | ±20% | 100 | 1 | 2.18 | 320 | 1.2 | 1,000 |

## Dimensions 8.0mm x 8.0mm (NR8040 Type, 4.2mm Max. Height)

| Ordering code | Inductance (µH) | Inductance Tolerance | Measuring Frequency (KHz) | Minimum Self-resonant Frequency (MHz) | Maximum DC Resistance (Ω) ±30% | Maximum Rated Current (mA) | Maximum Heigh (mm) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|---|
| NR-8040T1R9N-K | 0.9 | ±30% | 100 | 85 | 0.006 | 7800 | 4.2 | 1,000 |
| NR-8040T1R4N-K | 1.4 | ±30% | 100 | 63 | 0.007 | 7000 | 4.2 | 1,000 |
| NR-8040T2R0N-K | 2.0 | ±30% | 100 | 50 | 0.009 | 6300 | 4.2 | 1,000 |
| NR-8040T3R6N-K | 3.6 | ±30% | 100 | 34 | 0.015 | 4900 | 4.2 | 1,000 |
| NR-8040T4R7N-K | 4.7 | ±30% | 100 | 30 | 0.018 | 4100 | 4.2 | 1,000 |
| NR-8040T6R8N-K | 6.8 | ±30% | 100 | 24 | 0.025 | 3700 | 4.2 | 1,000 |
| NR-8040T100N-K | 10 | ±20% | 100 | 22 | 0.034 | 3100 | 4.2 | 1,000 |
| NR-8040T150N-K | 15 | ±20% | 100 | 16 | 0.050 | 2400 | 4.2 | 1,000 |
| NR-8040T220N-K | 22 | ±20% | 100 | 13 | 0.066 | 2200 | 4.2 | 1,000 |
| NR-8040T330N-K | 33 | ±20% | 100 | 12 | 0.100 | 1700 | 4.2 | 1,000 |
| NR-8040T470N-K | 47 | ±20% | 100 | 8 | 0.150 | 1400 | 4.2 | 1,000 |
| NR-8040T680N-K | 68 | ±20% | 100 | 7 | 0.230 | 1100 | 4.2 | 1,000 |
| NR-8040T101N-K | 100 | ±20% | 100 | 6 | 0.290 | 1000 | 4.2 | 1,000 |


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## High Current Ferrite Chip Beads - FB Series M Type

**Features:**
- Power supply units:
  - Large withstand voltage (allowable current up to 6A)
  - Resistant to high energy
  - High reliability
- There are several variations of the standard (FBMJ) type
  - HS for broadband
  - HM for upper MHz range applications
  - HL for GHz range applications
- The FBMH type is optimal for circuit designs which require impedance and large currents to combat radiated noise on power lines, etc.

**Applications:**
- Combats power line radiated and conducted noise
- Provides waveform correction of digital signals and high frequency noise countermeasures in various types of digital equipment
- Automotive
- Computer peripherals
- Differential transmission line on USB and similar products
- Mobile devices which require lower power consumption

**Operating Temperature:**
- -40ºC to +85ºC (includes self-generated heat)

## Part Numbering Table

**FBMJ** **3216** **HL** **330** **K**

**Type**
FBMJ = Regular Type, FBMH = High current

**Case Size**

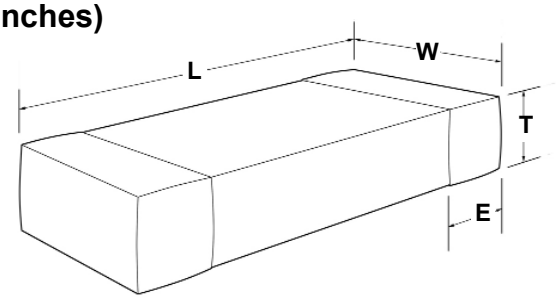
| | | | |
|---|---|---|---|
| **J** | 1608 (0603) | **H** | 1608 (0603) |
| | 2125 (0805) | | 2012 (0805) |
| | 3216 (1206) | | 2016 (0806) |
| | 4516 (1806) | | 3216 (1206) |
| | | | 3225 (1210) |
| | | | 4516 (1806) |
| | | | 4525 (1810) |
| | | | 4532 (1812) |

**KEMET Designator**

**Impedance**
**Examples:** 330 = 33Ω
111 = 110Ω
132 = 1300Ω

**Material**
HL, HM, HS - Contact KEMET for materials characteristics

## Dimension Table in millimeters (inches)




| Characteristic Code | Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|---|
| J | 1608 | 0603 | 1.6 ±0.2 (0.063 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.3 ±0.2 (0.012 ±0.008) |
| | 2125 | 0805 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.02 ±0.002) | 0.5 ±0.3 (0.020 ±0.012) |
| | 3216 | 1206 | 3.2 ±0.3 (0.126 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 4516 | 1806 | 4.5 ±0.3 (0.177 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| H | 1608 | 0603 | 1.6 ±0.1 (0.063 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.8 ±0.1 (0.031 ±0.004) | 0.3 ±0.15 (0.012 ±0.006) |
| | 2012 | 0805 | 2.0 ±0.2 (0.079 ±0.008) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.02 ±0.002) | 0.5 ±0.3 (0.020 ±0.012) |
| | 2016 | 0806 | 2.0 ±0.2 (0.079 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 3216 | 1206 | 3.2 ±0.3 (0.126 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 3225 | 1210 | 3.2 ±0.3 (0.126 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 0.5 ±0.3 (0.020 ±0.012) |
| | 4516 | 1806 | 4.5 ±0.3 (0.177 ±0.012) | 1.6 ±0.2 (0.063 ±0.008) | 1.6 ±0.2 (0.063 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |
| | 4525 | 1810 | 4.5 ±0.4 (0.177 ±0.016) | 2.5 ±0.3 (0.098 ±0.012) | 2.5 ±0.3 (0.098 ±0.012) | 0.9 ±0.6 (0.035 ±0.024) |
| | 4532 | 1812 | 4.5 ±0.4 (0.177 ±0.016) | 3.2 ±0.3 (0.126 ±0.012) | 3.2 ±0.3 (0.126 ±0.012) | 0.9 ±0.6 (0.035 ±0.024) |

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## 0603 Case Size High Current Ferrite Chip Beads (FB Series M Type)

| Ordering Code | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| FBMJ1608HS280K | 28 ±30% | 100 | 0.007 | 4 | O.8 ±0.2 (0.031 ±0.008) | 4,000 |
| FBMJ1608HM230K | 23 ±30% | 100 | 0.007 | 4 | O.8 ±0.2 (0.031 ±0.008) | 4,000 |

## 0805 Case Size High Current Ferrite Chip Beads (FB Series M Type)

| Ordering Code | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| FBMJ2125HS420K | 42 ±25% | 100 | 0.008 | 4 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMJ2125HS250K | 25 ±30% | 100 | 0.004 | 6 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMJ2125HM330K | 33 ±25% | 100 | 0.008 | 4 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMJ2125HM2I0K | 21 ±30% | 100 | 0.004 | 6 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMJ2125HL8R0K | 8 ±30% | 100 | 0.01 | 2 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |

## 1206 Case Size High Current Ferrite Chip Beads (FB Series M Type)

| Ordering Code | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| FBMJ3216HS800K | 80 ±25% | 100 | 0.01 | 4 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ3216HS480K | 48 ±30% | 100 | 0.005 | 6 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ3216HM600K | 60 ±25% | 100 | 0.01 | 4 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ3216HM380K | 38 ±30% | 100 | 0.005 | 6 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |

## 1806 Case Size High Current Ferrite Chip Beads (FB Series M Type)

| Ordering Code | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| FBMJ4516HS111K | 110 ±25% | 100 | 0.014 | 4 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ4516HS720K | 72 ±30% | 100 | 0.007 | 6 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ4516HM900K | 90 ±25% | 100 | 0.014 | 4 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |
| FBMJ4516HM560K | 56 ±30% | 100 | 0.007 | 6 | 1.1 ±0.2 (0.043 ±0.008) | 2,000 |


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## High Impedence Type Ferrite Chip Beads (FB Series M Type)

| Ordering Code | EIA Case Size | Impedance (Ω) | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (A) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|---|
| FBMH1608HM470K | 0603 | 47 ±25% | 100 | 0.02 | 3.5 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HM600K | 0603 | 60 ±25% | 100 | 0.025 | 3 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HM101K | 0603 | 100 ±25% | 100 | 0.035 | 2 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMHI608HM151K | 0603 | 150 ±25% | 100 | 0.05 | 2 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HM22IK | 0603 | 220 ±25% | 100 | 0.07 | 1.5 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMHI608HM331K | 0603 | 330 ±25% | 100 | 0.13 | 0.9 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HM471K | 0603 | 470 ±25% | 100 | 0.15 | 0.7 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMHI6O8HM6O1K | 0603 | 600 ±25% | 100 | 0.17 | 0.7 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HM102K | 0603 | 1000 ±25% | 100 | 0.35 | 0.3 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HL300K | 0603 | 30 ±25% | 100 | 0.028 | 2.5 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HL600K | 0603 | 60 ±25% | 100 | 0.045 | 1.8 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMHI608HL12IK | 0603 | 120 ±25% | 100 | 0.13 | 0.9 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HL221K | 0603 | 220 ±25% | 100 | 0.17 | 0.7 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HL331K | 0603 | 330 ± 5% | 100 | 0.21 | 0.6 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH1608HL471K | 0603 | 470 ±25% | 100 | 0.35 | 0.5 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMHI608HL601K | 0603 | 600 ±25% | 100 | 0.45 | 0.4 | 0.8 ±0.1 (0.031 ±0.004) | 4,000 |
| FBMH2012HM800K | 0805 | 80 ±25% | 100 | 0.025 | 2.7 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMH2012HM121K | 0805 | 120 ±25% | 100 | 0.032 | 2.5 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMH2012HM221K | 0805 | 220 ±25% | 100 | 0.06 | 2 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMH2012HM331K | 0805 | 330 ±25% | 100 | 0.08 | 1.8 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| FBMH2016HM251K | 0806 | 250 ±30% | 100 | 0.05 | 2 | 1.6 ±0.2 (0.063 ±0.008) | 2,000 |
| FBMH3216HM501K | 1206 | 500 ±30% | 100 | 0.07 | 2 | 1.6 ±0.2 (0.063 ±0.008) | 2,000 |
| FBMH4516HM851K | 1806 | 850 ±30% | 100 | 0.1 | 1.5 | 1.6 ±0.2 (0.063 ±0.008) | 2,000 |
| FBMH3225HM601K | 1210 | 600 ±30% | 100 | 0.042 | 3 | 2.5 ±0.3 (0.098 ±0.012) | 1,000 |
| FBMH3225HM102K | 1210 | 1000 ±30% | 100 | 0.1 | 2 | 2.5 ±0.3 (0.098 ±0.012) | 1,000 |
| FBMH3225HM202K | 1210 | 2000 ±30% | 100 | 0.13 | 1.2 | 2.5 ±0.3 (0.098 ±0.012) | 1,000 |
| FBMH4525HM102K | 1810 | 1000 ±30% | 100 | 0.06 | 3 | 2.5 ±0.3 (0.098 ±0.012) | 1,000 |
| FBMH4525HM162K | 1810 | 1600 ±30% | 100 | 0.13 | 2 | 2.5 ±0.3 (0.098 ±0.012) | 1,000 |
| FBMH4532HM681K | 1812 | 680 ±25% | 100 | 0.028 | 4 | 3.2 ±0.3 (0.126 ±0.012) | 2,000 |
| FBMH4532HM132K | 1812 | 1300 ±25% | 100 | 0.06 | 3 | 3.2 ±0.3 (0.126 ±0.012) | 2,000 |
| FBMH4532HM202K | 1812 | 2000 ±25% | 100 | 0.13 | 1.3 | 3.2 ±0.3 (0.126 ±0.012) | 2,000 |

# Multilayer Ferrite Chip Beads - BK Series

**BK Features:**
- Internal silver printed layer creates a closed circuit which acts as a magnetic shield to minimize heat generation and crosstalk
- No need for grounding provides greater circuit design flexibility
- Several material types and a broad range of impedance values provide noise countermeasures for various applications

HS: Suppresses the XL component. Helps stop the reduction of the wave-form integrity (digital wave-form overshoot, etc)

HM: Increases the Z characteristics sharply above 20MHz and is applicable for radiated noise in the 100MHz-300MHz range. Especially effective on video signal lines.

LL: Designed as a noise countermeasure for 200MHz-500MHz range where the rise of the Z component is in the high frequency area.

LM: Intended for noise suppression around 200MHz. Effectively increase attenuation

HW: The best material in the BK Series to suppress the XL component and stop the reduction of the wave-form integrity while maintaining attenuation in the high frequency area.

TS: Reduced DC resistance version for noise countermeasures around LSI power supplies

**BKP Features:**
- Low Rdc values reduce power dissipation and extend battery life
- No need for grounding provides greater circuit design flexibility

**BK Applications:**
- High frequency noise countermeasure in personal computers, digital cameras and other information system products. For use on digital product clock lines and general signal lines.
- Radiated noise suppression in computer or printer interfaces harness connectors.
- Noise suppression in video and other AV products
- Prevents interference between circuits in cellular phones (PHS, PDC, etc)
- Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supplies where downsizing of components is needed.

**BKP Applications:**
- High frequency noise countermeasures on the DC power supply line in personal computers and other information system products
- Noise suppression in USB and IEEE1294 interface
- Prevents interference between circuits in mobile systems (PDC, PHS, PDA)

**Operating Temperature:**
- BK: -55ºC to +125ºC (includes self-generated heat)
- BKP: -55ºC to +85ºC (includes sel-generated heat)

## Part Numbering Table

**BK- 1005 HM 121 T K**

**Type**
BK- = Standard, BKP = For Power Supply Lines

**Case Size**
0603 (0201)
1005 (0402)
1608 (0603)
2125 (0805)

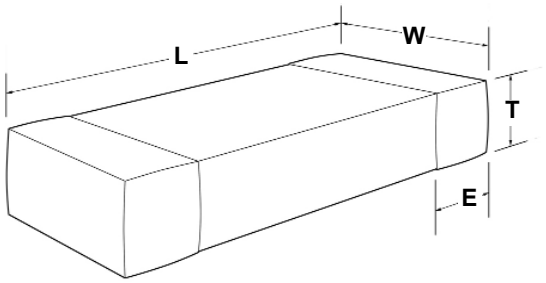
**Material**
HM, HS, HW, LL, LM, TS
Contact KEMET for materials characteristics

**Impedance**
**Examples:** 150 = 15Ω
101 = 100Ω
102 = 1000Ω

**Packaging Code**
T = Tape & Reel

**KEMET Designator**

## Dimension Table in millimeters (inches)




| Dim. Code | EIA Case Size | L Length (inches) | W Width (inches) | T Thickness Maximum (inches) | E (inches) |
|---|---|---|---|---|---|
| 0603 | 0201 | 1.6 ±0.2 (0.063 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.8 ±0.2 (0.031 ±0.008) | 0.3 ±0.2 (0.012 ±0.008) |
| 1005 | 0402 | 1.00 ±0.05 (0.039 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.50 ±0.05 (0.020 ±0.002) | 0.25 ±0.10 (0.010 ±0.004) |
| 1608 | 0603 | 1.6 ±0.15 (0.063 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.8 ±0.15 (0.031 ±0.006) | 0.3 ±0.2 (0.012 ±0.008) |
| 2125 | 0805 | 2.0 +0.3/-.01 (0.079 +0.012/-0.004) | 1.25 ±0.2 (0.049 ±0.008) | 0.85 ±0.2 (0.033 ±0.008) | 0.5 ±0.3 (0.020 ±0.012) |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## 0201 Multilayer Ferrite Chip Beads Standard Type (BK Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BK-0603HS220TK | 22 | 100 | 0.10 | 500 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HS330TK | 33 | 100 | 0.20 | 350 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HS800TK | 80 | 100 | 0.40 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HS121TK | 120 | 100 | 0.50 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HS241TK | 240 | 100 | 0.80 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HM600TK | 60 | 100 | 0.40 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HM121TK | 120 | 100 | 0.50 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603HM241TK | 240 | 100 | 0.80 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603LL100TK | 10 | 100 | 0.40 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603LL220TK | 22 | 100 | 0.50 | 200 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603LL330TK | 33 | 100 | 0.80 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |
| BK-0603LL470TK | 47 | 100 | 1.00 | 150 | 0.30 ±0.03 (0.012 ±0.001) | 15,000 |

## 0402 Multilayer Ferrite Chip Beads Standard Type (BK Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BK-1005HW680TK | 68 | 100 | 0.17 | 500 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HW121TK | 120 | 100 | 0.24 | 450 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HW241TK | 240 | 100 | 0.31 | 400 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HW431TK | 430 | 100 | 0.50 | 350 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HW601TK | 600 | 100 | 0.60 | 300 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS100TK | 10 | 100 | 0.05 | 1000 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS330TK | 33 | 100 | 0.10 | 700 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS680TK | 68 | 100 | 0.13 | 600 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS121TK | 120 | 100 | 0.23 | 500 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS241TK | 240 | 100 | 0.33 | 400 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HS601TK | 600 | 100 | 0.58 | 300 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HM121TK | 120 | 100 | 0.25 | 300 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HM241TK | 240 | 100 | 0.36 | 300 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HM471TK | 470 | 100 | 0.56 | 250 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HM601TK | 600 | 100 | 0.59 | 250 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005HM102TK | 1000 | 100 | 0.80 | 150 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL100TK | 10 | 100 | 0.15 | 500 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL220TK | 22 | 100 | 0.20 | 400 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL330TK | 33 | 100 | 0.30 | 400 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL470TK | 47 | 100 | 0.35 | 350 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL680TK | 68 | 100 | 0.31 | 400 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL121TK | 120 | 100 | 0.45 | 350 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL181TK | 180 | 100 | 0.53 | 300 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |
| BK-1005LL241TK | 240 | 100 | 0.70 | 250 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |

## 0402 Multilayer Ferrite Chip Beads For Power Lines (BKP Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BKP1005HS121TK | 120 | 100 | 0.14 | 1000 | 0.50 ±0.05 (0.020 ±0.002) | 10,000 |

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## 0603 Multilayer Ferrite Chip Beads Standard Type (BK Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BK-1608HW121TK | 120 | 100 | 0.15 | 600 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HW241TK | 240 | 100 | 0.25 | 450 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HW431TK | 430 | 100 | 0.30 | 400 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HW601TK | 600 | 100 | 0.40 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS220TK | 22 | 100 | 0.05 | 1500 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS330TK | 33 | 100 | 0.08 | 1200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS470TK | 47 | 100 | 0.10 | 900 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS600TK | 60 | 100 | 0.10 | 800 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS800TK | 80 | 100 | 0.10 | 600 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS121TK | 120 | 100 | 0.18 | 500 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS241TK | 240 | 100 | 0.25 | 400 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS601TK | 600 | 100 | 0.45 | 350 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HS102TK | 1000 | 100 | 0.60 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HM121TK | 120 | 100 | 0.20 | 350 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HM24ITK | 240 | 100 | 0.35 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HM471TK | 470 | 100 | 0.45 | 250 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HM601TK | 600 | 100 | 0.60 | 250 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608HM102TK | 1000 | 100 | 0.70 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL300TK | 30 | 100 | 0.20 | 500 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL470TK | 47 | 100 | 0.30 | 400 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL560TK | 56 | 100 | 0.30 | 400 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL680TK | 68 | 100 | 0.35 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL121TK | 120 | 100 | 0.50 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL181TK | 180 | 100 | 0.65 | 250 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL24ITK | 240 | 100 | 0.80 | 250 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL331TK | 330 | 100 | 0.85 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL431TK | 430 | 100 | 0.85 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL511TK | 510 | 100 | 0.90 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LL681TK | 680 | 100 | 1.00 | 150 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LM751TK | 750 | 100 | 0.60 | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LM152TK | 1500 | 100 | 0.75 | 250 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LM182TK | 1800 | 100 | 0.85 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608LM252TK | 2500 | 100 | 1.10 | 200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608TS431TK | 430 | 100 | 0.25 ±30% | 400 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608TS601TK | 600 | 100 | 0.27 ±30% | 350 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BK-1608TS102TK | 1000 | 100 | 0.35 ±30% | 300 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |

## 0603 Multilayer Ferrite Chip Beads For Power Lines (BKP Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BKP1608HS330TK | 33 | 100 | 0.025 | 3000 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS600TK | 60 | 100 | 0.040 | 2500 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS101TK | 100 | 100 | 0.050 | 1700 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS121TK | 120 | 100 | 0.035 | 2700 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS181TK | 180 | 100 | 0.075 | 1500 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS271TK | 270 | 100 | 0.110 | 1200 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |
| BKP1608HS391TK | 390 | 100 | 0.140 | 1000 | 0.80 ±0.15 (0.031 ±0.006) | 4,000 |


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## 0805 Multilayer Ferrite Chip Beads Standard Type (BK Series)

| Ordering Code | Impedance (Ω) ±25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BK-2125HS150TK | 15 | 100 | 0.05 | 1200 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS220TK | 22 | 100 | 0.05 | 1200 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS330TK | 33 | 100 | 0.05 | 1200 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS470TK | 47 | 100 | 0.05 | 1000 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS750TK | 75 | 100 | 0.10 | 1000 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS101TK | 100 | 100 | 0.10 | 900 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS121TK | 120 | 100 | 0.15 | 800 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS241TK | 240 | 100 | 0.20 | 600 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS431TK | 430 | 100 | 0.25 | 500 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS601TK | 600 | 100 | 0.30 | 500 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HS102TK | 1000 | 100 | 0.40 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HM121TK | 120 | 100 | 0.15 | 800 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HM241TK | 240 | 100 | 0.20 | 600 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HM471TK | 470 | 100 | 0.25 | 500 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HM601TK | 600 | 100 | 0.25 | 500 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125HM102TK | 1000 | 100 | 0.35 | 400 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LL560TK | 56 | 100 | 0.20 | 600 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LL121TK | 120 | 100 | 0.30 | 400 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LL241TK | 240 | 100 | 0.35 | 300 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LM751TK | 750 | 100 | 0.30 | 400 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LM152TK | 1500 | 100 | 0.35 | 400 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BK-2125LM182TK | 1800 | 100 | 0.45 | 300 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |
| BK-2125LM252TK | 2500 | 100 | 0.75 | 200 | 1.25 ±0.2 (0.049 ±0.008) | 2,000 |

## 0805 Multilayer Ferrite Chip Beads For Power Lines (BKP Series)

| Ordering Code | Impedance (Ω)+25% | Measuring Frequency (MHz) | Maximum DC Resistance (Ω) | Maximum Rated Current (mA) | Thickness mm (inches) | Tape & Reel Packaging Quantity |
|---|---|---|---|---|---|---|
| BKP2125HS330TK | 33 | 100 | 0.020 | 4000 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BKP2125HS600TK | 60 | 100 | 0.025 | 3000 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BKP2125HS101TK | 100 | 100 | 0.040 | 2500 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |
| BKP2125HS221TK | 220 | 100 | 0.050. | 2000 | 0.85 ±0.2 (0.033 ±0.008) | 4,000 |

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**DISCLAIMER**

All electronic components or devices listed in this catalog are developed, designedand intended for use in general electronic equipment. Before incorporating these components into any equipment in the fields of aerospace, military or medical, where higher safety and reliability are required, please contact KEMET Corp for more details.

Through our Strategic Alliance, announced in September of 2005, Taiyo Yuden and KEMET are working together to utilize best practices in the areas of manufacturing, technology, marketing, and customer support to better serve the electronics industry.

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